



**Calhoun: The NPS Institutional Archive** 

**DSpace Repository** 

Theses and Dissertations

1. Thesis and Dissertation Collection, all items

1964

# An analysis of stock market indicators

Dunham, Donald J., Jr.

Monterey, California: U.S. Naval Postgraduate School

This publication is a work of the U.S. Government as defined in Title 17, United States Code, Section 101. Copyright protection is not available for this work in the United States.

Downloaded from NPS Archive: Calhoun



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

> Dudley Knox Library / Naval Postgraduate School 411 Dyer Road / 1 University Circle Monterey, California USA 93943

http://www.nps.edu/library

NPS ARCHIVE 1964 DUNHAM, D.

AN ANALYSIS OF STOCK MARKET INDICATORS

DONALD J. DUNHAM

Statemend #1 - 19/3/69 per tolcon Prof Dorbyshie (2/20/17)

DUDLEY KNOX LIBHARY NAVAL POSTGRADUATE SCHOOL MONTEREY CA 93943-5101

LIBRARY

11.3. TAVAL POSTGRADUATE SCHOOL
MONTEREY, CALIFORNIA









## AN ANALYSIS OF STOCK MARKET INDICATORS

\* \* \* \* \*

Donald J. Dunham, Jr.



## AN ANALYSIS OF

## STOCK MARKET INDICATORS

by

Donald J. Dunham, Jr.

Lieutenant Commander, Supply Corps, United States Navy

Submitted in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN MANAGEMENT (DATA PROCESSING)

United States Naval Postgraduate School Monterey, California

1964

MPS Archive 1964 Durham, D. DX8.15

LIBRARY

U.S. NAVAL POSTGRADUATE SCHOÓL

MONTEREY, CALIFORNIA

AN ANALYSIS OF

STOCK MARKET INDICATORS

by

Donald J. Dunham, Jr.

This work is accepted as fulfilling
the thesis requirements for the degree of
MASTER OF SCIENCE

IN

MANAGEMENT (DATA PROCESSING)

from the

United States Naval Postgraduate School

#### ABSTRACT

The Dow-Jones Industrial Average, Standard and Poor (500) Index, and Barron's Confidence Index were tested by various FORTRAN programs, and the results were graphed and printed from the Control Data 1604 tapes. Moving averages of differing periods, exponential smoothing using various smoothing constants and orders, and the Trendex model were used in the analysis. These techniques are discussed and analyzed. The representative programs, printouts and graphs are included to assist in determining whether to concentrate on investment in common stock or to deemphasize this portion of the portfolio and replace it in whole or in part with cash or bonds.

The patience of the personnel assigned to the Computer Facility,
U. S. Naval Postgraduate School, was greatly appreciated. The direction and encouragement of Professors L. Darbyshire and D. G. Williams of
the U. S. Naval Postgraduate School also contributed greatly to the
pursuance of this analysis.



### TABLE OF CONTENTS

Chapter	Title	Pag
I	Introduction	1
11	Moving Averages	3
III	Trendex Model	9
IV	Disparity Index	15
v	Exponential Smoothing	18
vı	Barron's Confidence Index	23
VII	Conclusion	28
	Bibliography	30
Appendix		
A	13 Week Moving Average With Trendex Model, Dow-Jones Industrial (weekly) Average, 1 April 1960 through 26 March 1964	31
В	100 Day and 200 Day Moving Average Dow-Jones Industrial (daily) Average 14 October 1960 through 26 March 1964	
С	Trendex Model DJI (monthly) Average 31 January 1950 through 30 April 1964	
D	Trendex Model Standard & Poor (500) (momthly) Index 31 January 1928 through 30 April 1964	
E	Disparity Index Standard & Poor (500) and DJI (monthly) Averages 31 January 1948 through 30 April 1964	
F	First and Second Order Exponential Smoothing Dow-Jones Industrial (daily) Average 30 August 1960 through 31 March 1964	
G	Exponential Forecasting Model Dow-Jones Industrial (daily) Average 30 August 1960 through 31 March 1964	
Н	Listing by Date of Barron's Confidence Index and Dow- Jones Industrial (weekly) Average 10 June 1960 through 26 March 1964	
I	Barron's Confidence Index With Trendex Model 10 June 1966 through 26 March 1964	0 بارد



## LIST OF ILLUSTRATIONS

Figure	P	age
	rial Average (weekly) vs 13 Week 1 April 1960 through 26 March 1964	4
	rial Average (daily) vs 200 Day 14 October 1960 through 26 March 1964	5
	rial Average (daily) vs 200 Day Moving ny Moving Average, 14 October 1960 1964	8
	rial Average (monthly) vs Trendex, chrough 30 April 1964	10
	(500) (monthly) vs Trendex, chrough 30 April 1964	11
	rial (weekly) vs 13 Week Moving ex, 1 April 1960 through 26 March 1964	12
	rial vs Standard & Poor (500) (monthly) ex, 31 January 1948 through 30 April 1964	16
	gle vs Double Exponential Smoothing st 1960 through 31 March 1964	20
Value of Dow-Jone	Exponential Smoothing vs Expected s Industrial Average vs Forecast vs 01 (daily), 30 August 1960 through	21
Value of Dow-Jone	Exponential Smoothing vs Expected s Industrial Average vs Forecast vs 30 (daily), 30 August 1960 through	22
	nce Index vs Dow-Jones Industrial , 10 June 1960 through 26 March 1964	26
	nce Imdex vs Dow-Jones Industrial x (weekly), 10 June 1960 through	27

#### CHAPTER I

#### INTRODUCTION

The stock market tells a story that can be heard by those who take the time to listen. There are many techniques available to assist in interpreting this story. Some of these indicators will be discussed and analyzed.

No attempt has been made to determine what stock to buy. The value in this thesis is to assist in determining whether to concentrate on investment in common stock or to deemphasize the common stock portion of a portfolio and replace it in whole or in part with cash or bonds. The assumption made here is that the probability favors the continuation of the trend in a broad index that now exists. This may be due in part to the fact that most averages are composed of active, well-publicized and widely owned issues whose market action individually is "normal" in the technical sense. Another reason is that the process of averaging smooths out vagaries of component stocks, and the result thus more truly reflects the deep and relatively steady economic trends and tides. It is a fact that such averages as the Dow-Jones and Standard and Poor do propagate excellent trend lines on their charts. Admittedly investors cannot trade in the averages; actual commitments must be made in individual issues. However, even experienced traders know that it pays to heed the broad market trend

Several computer programs, written by the author in FORTRAN and run on a Control Data 1604, are included in the appendices. One subroutine, "DRAW", which is available at the U. S. Naval Postgraduate School, was



used to obtain the graphs. A limitation imposed by this subroutine is that only 900 data points can be plotted, and the maximum abscissa is 9 inches. These graphs include moving averages, exponential smoothing and the Trendex time series technique.



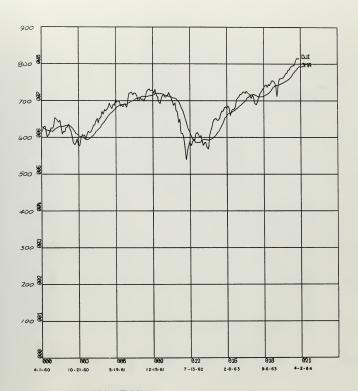
#### CHAPTER II

#### MOVING AVERAGES

Obtaining moving averages from the Dow Jones Industrial Average is one of the most informative methods of analysis. The determination of the period involved is somewhat controversial. Several periods were analyzed to ascertain the difference in characteristics. A 13 week moving average (13MA) is plotted with the Dow Jones Industrial Average (DJI) superimposed over it in figure 1. The computer program and data are included in appendix A. The Dow Jones Industrial Average was used as of the close of business each Friday from 1 April 1960 through 26 March 1964. If the market was closed on Friday, the last day the market was open during that week was used.

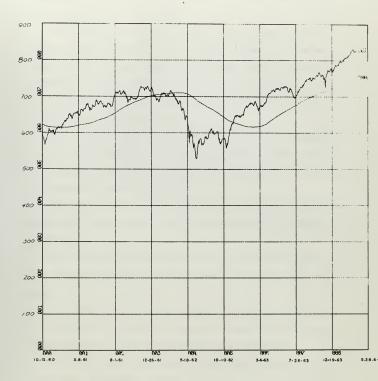
A 200 day moving average (200), figure 2, is more commonly used. This analysis was computed from 14 October 1960 through 26 March 1964. A disadvantage of this system is that the first 199 days of data are lost in computing the average. It is desirable to use a slow-moving average line to obtain a more reliable chart. It should be noted that there were only 3 basic changes to the trend between 14 October 1960 and 26 March 1964. These are clearly identified in figure 2, when the Dow Jones Industrial average broke out on the upside on 16 December 1960, hesitated slightly, and broke out on the upside on 28 December 1960. It broke through on the downside on 30 March 1962 forecasting the crisis of that spring. The current bullish trend was depicted by an upward breakthrough on 20 November 1962. It is true that there were some false breakthroughs; such as 22 November 1963 when President Kennedy was





NSSUE - 300F-90 LMTS-MON Y-50AE - 100F-90 LMTS-MON DLINHAM 237 DJI VS DJI 13 WEEK MOVING AVERAGE 1 APRIL 1960 THRU 27 MAR.1964





K-SCALE - LIMERAN UNITS/INCK
Y-SCALE - LIMERAN UNITS/INCK
DUNHAM 237 DOW JONES INDUSTRIALS US 200 DAY
MOUING AVERAGE 14 OCT.1960 THRU 26 MAR.1964



assassinated, but these are either explained by outside forces or are a signal using the rules listed below.

The 13 week moving average in figure 1 does not seem to permit an analysis as well as the 100 or 200 day moving averages. It provides a faster reaction to trend changes, but the large number of intersections make the analysis more difficult. Monthly moving averages of periods 3 and 6 were tested, but proved unsatisfactory since the line moved too rapidly for an effective analysis.

The following interpretations of figures 1 and 2 are recommended;

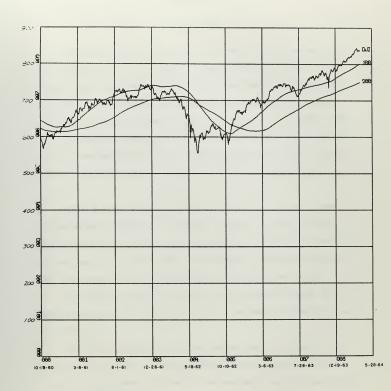
- (1) If the average line flattens out following a previous decline, or is advancing, and the Index penetrates that average line on the upside, this comprises a major buying signal.
- (2) If the Index falls below the moving average price line while the average line is still rising, this also is considered to be a buying opportunity.
- (3) If the Index is above the line and is declining toward that line, fails to go through and starts to turn up again, this is a buying signal.
- (4) If the Index falls too fast under the declining average line, it is entitled to an advance back toward the average line and a buying opportunity for this short-term technical rise is indicated.
- (5) If the average line flattens out following a previous rise, or is declining, and the Index penetrates that line on the downside, this comprises a major selling signal.
- (6) If the Index rises above the moving average price line while the average line is still falling, this also is considered to be a selling opportunity.



- (7) If the Index is below the line and is advancing toward that line, fails to go through and starts to turn down again, this is a selling signal.
- (8) If the Index advances too fast above the advancing average line, it is entitled to a reaction back toward the average line and a selling opportunity for this short-term technical reaction is indicated [8].

Another system which is sometimes used is illustrated in figure 3. The computer program with output data is shown in appendix B. This program can be used in conjunction with the rules recommended for figure 2. For bear market insurance a very simple procedure to remember is that a sell signal is effected when the Dow Jones Industrial A/erage falls below the lower of the two moving average lines 1.





DUNHAM BOX 237 DJI US 200 DAY US 100 DAY MOUING AVERAGES 14 OCT.1960 THRU 26 MAR.1964



#### CHAPTER III

#### TRENDEX MODEL

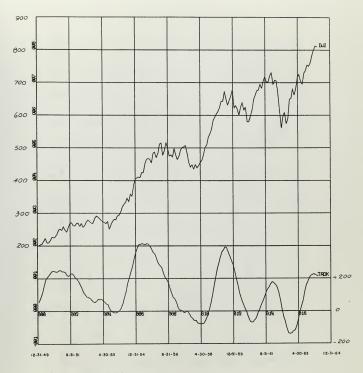
The Trendex model first came to the attention of the author when it was described by E. S. C. Coppock in the 15 October 1962 issue of Barron's. This discussion was limited to the bull market era between 1950 and 1962. This period has been extended through April 1964 using the Dow Jones Industrial Average on the last market day of the month, figure 4. To determine the broader applicability of this model, the S:andard and Poor composite of 500 stocks (STPR) was used commencing in January 1928. Figure 5 indicates that there is also a correlation in bear markets.

Figure 6 superimposes the Trendex curve (TNDX) from the 13 week moving average on figure 1. Appendix A contains the Trendex output. Little advantage is gained here except that two indicators are available on one graph from the same data. An attempt with a 200 day moving average with Trendex was of no value because it increased too slowly.

The computer programs for the Dow Jones Industrial Average and the Standard and Poor (500) are similar and are included in appendices C and D respectively.

Reasonable assumptions about the growing family of investors might include the following: the vast majority have no special training as investors; being human, they tend to procrastinate; new investors indulge their hopes, fears and imaginations; since few people are truly temperate, most investors become in turn unduly optimistic and unduly pessimistic, and are swept along with the crowd. In short, then, psychological or

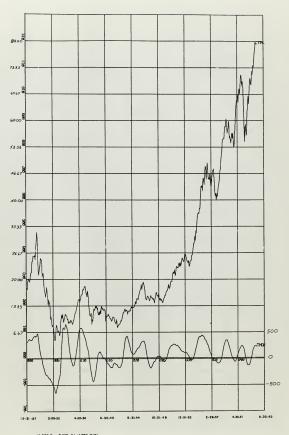




N-301E - 200E-01 INTO-JONEN TU-SOUL - 100E-02 INTO-JONEN TU-SOUL - 100E-02 INDUSTRIALS US TRENDEX DJI 31 JAN-1950 THRU 30 APR-1964 MONTHLY

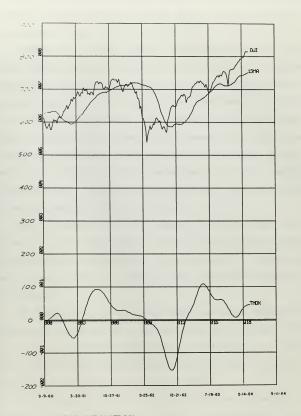
F I G. 4





N-50AE - 508E+8 UNTS-10CK - 108E+80 UNTS-10CA DUNHAM STANDARD AND POOR (500) US TRENDEX STANDARD AND POOR 31 JAN-1928 THRU 30 APR-1964





X-90ALE - 3,89E+81 UNITS-/PROK PUBLIF - 1,99E+81 UNITS-/PROK DUNHAM 237 DJI US DJI 13 WEEK MOUING AUERAGE US TRENDEX 13 WEEKMOUING AUERAGE 9/09/60-3/27/64



emotional factors play a great part in determining the actions of most investors. A way to record and evaluate the ever-increasing impact of emotion on market prices should be added to the investor's tool box.

Despite words of warning, emotional buying and selling will continue, thereby increasing the amplitude of market movements. These movements can be highly profitable to the investor who can appraise them properly, detect their acceleration and deceleration and act accordingly; contrary to the emotions of the crowd. The crowd liquidates holdings during a panicky decline and ignores basic economic facts. They overdo because they are motivated by emotion rather than by reason. The distortion created by impulsive buying and selling can be great. Emotional influences on the stock market gather momentum until they reach a climax. Excesses are usually followed by corrections.

Time and change are the basic elements in evaluating trends. The selection of proper time spans for a study of rate of change determines the effectiveness of the technique. The persistence of a trend for many months is more reliable than trends of short duration for the majority of investors.

The Trendex model is based on the monthly percentage change of an acceptable index. This is more meaningful than points of change. Since it gives a so-called buy signal when the risk is low just prior to the start of an important sustained advance (the second phase of a bull market), it is of no value to the in-and-out trader.

The value of the 10 month weighted moving average (column 18) is posted to the current date, figure 4, and is a simple curve which oscillates above and below a zero line. In statistical theory, if the

emotional factor were not present in stock market prices, there would be no widely oscillating curve - the line would be nearly horizontal. Its waves are, in effect, a picture of the emotional, or irregular pattern, since the trend and cyclical variations have been removed. Seasonal factors are not considered in this model.

According to Mr. Coppock [4], well timed buying is far more difficult for the non-professional investor than timely selling. He, therefore, prefers to think of the curve as a very long-term buying guide and suggests buying several strong good-quality stocks for the long term when the curve first turns upward from a position below the zero line.

Although not as accurate, the maximum points provide a reasonable correlation with downswings of the market. This indicator is purportedly to be used in the purchase of high grade stocks which are to be held for a long period. However, utilization of this indicator in conjunction with other technical devices expands its applicability to the market in general.

Several refinements to this technique suggest themselves, some of which have been tested here; the use of a very broad composite as the source of raw data, improved sensitivity through the use of weekly data, and the use of a monthly mean price instead of a closing price. It is the opinion of the author that there is value in using this model in the selection of individual stocks; provided the pattern of the prices used is compatible to the moving average introduced. A shorter term signal will be provided by a weighted moving average with a shorter period.



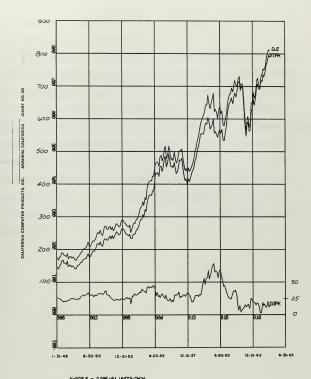
## CHAPTER IV

## DISPARITY INDEX

This program, appendix E, provides an interesting result. An expression commonly heard is that since the Dow Jones Industrial Average is composed of only 30 stocks; it, therefore, cannot provide a good indication of the market. An index that contains more stocks should be used. Figure 7 demonstrates that there is a very close parallel between the Dow-Jones Industrials (DJI) and the Standard and Poor (500) (STPR). The usual thumb-rule of Dow Jones/Standard and Poor ratio of 10:1 was used. The Standard and Poor times 10 is subtracted from the Dow-Jones and plotted (DSPX) in figure 7.

This also provides a quick measurement of the market movement. If Standard and Poor (500) was up .25 on the day and the Dow-Jones Industrial Average was off .50, then there is a bullish 3 point disparity in favor of the Dow. The next move of the Dow would probably be an advance. The Standard and Poor Index would have reflected the fact that on that particular day the general market was stronger than the Dow-Jones Industrial Average said it was. The Dow should have advanced by 2.50 to be commensurate with the general market. A 4 point advance in the Dow-Jones Industrial Average should be matched by at least a .40 gain in the Standard and Poor Index. Anything considerably below .40 would indicate the Dow-Jones advance was not typical of the general market. A decline would be expected to follow; but not necessarily immediately. However, if this situation persists, the vulnerability of the market would increase. In the case of such disparities, one of two things would be





N-SORE - 3008-91 INTRO-PICK PORTE - 1088-90 INTRO-PICK DUNHAM 237 DJT US STANDARD AND POORS 500 US DISPARITY INDEX 31 JAN-1948 THRU 30 APR-1964

FIG. 7



expected to take place. Either the general market would come up to the Dow or the Dow would come down to the market price level. Past performance indicates a higher probability of the latter. Blue chip issues are the last to fall in a bear market.

This measurement of differential is also valuable as a major intermediate market indicator, especially when measuring the extent that the blue chip issues are running ahead of the general market late in a bull cycle. The Disparity Index quickly reflects the initial degree of general market deterioration paralleling a decline in the Advance-Decline Index. The Advance-Decline Index reflects general deterioration in a market that is losing strength, but the Disparity Index measures the degree of vulnerability and suggests how far the Dow-Jones Industrial average will go on the probable reaction. Figure 7 indicates that a "behind-the-market" status for the blue chips on a negative disparity is quite rare.



## CHAPTER V

# EXPONENTIAL SMOOTHING

Moving averages have many of the desirable characteristics of a practical method for smoothing out fluctuations. They have a stable response to changes, and the rate of response can be controlled by the selection of the number of periods included in the average. The most serious drawback is to keep track of past data, so that the moving totals can be adjusted, adding new information and dropping old. It is difficult to change the rate of response.

Exponential smoothing is a special kind of moving average that does not require keeping a long historical record and cuts down on data-processing time. The rate of response can be adjusted readily.

The formula for this system is simply to add to the old average a fraction of the difference between the new data and the old average. It is usually written as: new average = 1 (new data) + (1-5) old average; where C is a fraction. In the program, appendix F, the new average = old average + 1 (new data-old average) to reduce the computer time.

The smoothing constant, alpha, that gives the equivalent of an N-month moving average is  $\frac{2}{N+1}$ . The total fraction of the weight given to all the data more than N-months old is  $(1-cC)^{N+1}$ . To approximate a 200 day moving average, a smoothing constant .01 was used. The same rules regarding the evaluation of moving averages apply here.

First order exponential smoothing does not track a trend in the data, but an apparent trend can be computed to correct the calculated

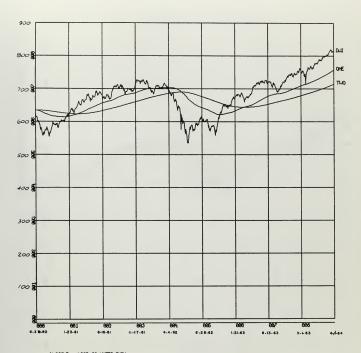


average for its effect. This can be more readily accomplished by second order exponential smoothing. This is merely a repeat of the first order system. The second order average is equal to the first order average plus a fraction of the difference between the first and second order averages. Figure 8 shows the first order average (ONE) and second order average (TWO) superimposed on the Dow-Jones Industrial Average using a smoothing constant of .01. A comparison with figure 2 shows the equivalence of the first order exponential to the 200 day moving average.

An attempt to forecast the Dow-Jones Industrial Average one day in advance is shown in appendix G. Figures 9 and 10 show daily plots of the Dow-Jones Industrial Average (DJI), the first order exponential average (ONE), the second order exponential average (TWO), the expected Dow-Jones (used in a statistical sense) (EDJI), the forecast (FCST) and the differential between the forecast and the actual Dow (EROR), for the period 30 August 1960 through 31 March 1964. Figure 9 shows a smoothing constant, CC, of .01 which did not produce desired results. In figure 10 the smoothing constant was increased to .30, and much better results were received.

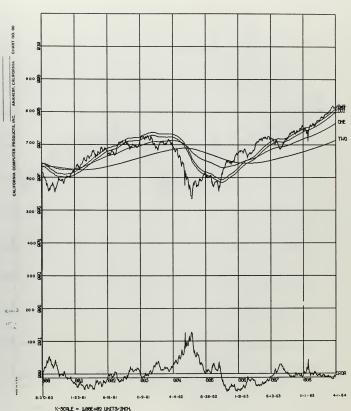
This preliminary model can readily be changed to produce a forecast with a longer lead time and to provide an automatic change in the smoothing constant when the system gets out of control, i.e. when the Dow-Jones varies more chan a pre-determined value from the forecast.





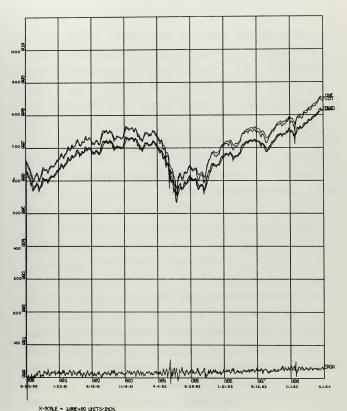
K-SORE - LOGGE-90 LUTTS-DOCK TORRE - LOGGE-90 LUTTS-DOCK DUNHAM 237 DJI VS SINGLE AND DOUBLE EXPONENTIAL SMOOTH CONSTANT .01 30 AUG.1960 THRU 31MAR.1964





1, CALIFORNIA





EXPECTEDDUI US FCSTDJIUS SGL.US DBL.EXPONENTAL SMOOTH EDJIFCST .3 30 ALIG.1960 THRU 31MAR.1964



## CHAPTER VI

## BARRON'S CONFIDENCE INDEX

The Confidence Index has been quoted weekly in Barron's since 1932. It has not been considered a market forecaster until relatively recently when it was popularized by Joseph E. Granville. The author first became aware of its use from Mr. Granville's article in the 7 September 1959 issue of Barron's, when he wrote, "Whatever the Confidence Index does not foresee is not important."

As its name suggests, the Index attempts to measure investor confidence. Specifically, it represents the ratio between the average yield of Barron's 10 highest-grade corporate bonds and that of Dow-Jones' 40 bonds. The ratio is high when investors demonstrate confidence by buying lower grade liens, low when they take refuge in top-grade issues. Correlated with the movements of the stock market, the Index becomes a highly sensitive forecasting instrument; predicting the extent, as well as the timing, of price advances and declines.

Generally speaking, changes in the Confidence Index precede those of the stock market by two to four months. Repetitive bottoms or tops in the Index usually signal very important near-term lows or highs in the Dow-Jones Industrial Average. Major tops for the market are signaled when it makes a sharp weekly upswing to a new high and then retreats immediately the following week. The low in the Index following an unbroken series of declines is often more significant than subsequent lows made after intermittent rebounds. According to Mr. Granville, the setting up of the next timing zone for market vulnerability is measured by

adding two to four months to the date of the previous Index high, regardless of an upturn in the Index at some time after that date. The maximum point of vulnerability is closer to the 60 day lead than to the 120 day lead.

The 40 bonds that are grouped in the Dow-Jones average are composed of 10 high grade rails, 10 second grade rails, 10 public utilities, and 10 industrials. Barron's 10 high grade corporate bonds list is comprised of 4 rails, 3 utilities, 2 oils, and U. S. Steel 4½'s 1986. The rises in the Confidence Index on 15 March 1963 and 7 February 1964 were due in large part to changes in the structure of the Index (see appendix H). On 15 March 1963 Chicago, Milwaukee, St. Paul & Pacific, 4's, 1994, and St. Louis, San Francisco, 4's, 1997, were substituted for Delaware, Hudson, 4's, 1963, and New York Lackawana & Western, 4½'s, 1973, in the Dow-Jones second grade rails; and U. S. Steel, 4½'s, 1986, was substituted for Texas Corp., 3's, 1965, in Barron's 10 High Grade Bonds. The reason for these changes, according to a telephone conversation with Barron's in New York, was due to the inactivity of the previous issues. The expiration of Delaware, Hudson, 4's, 1963, of course, necessitated replacement.

Correlations without logic are seldom reliable. The logic behind the Confidence Index is that it is simply pointing out the direction the smart money is moving. When the Index is going up, it means that the important money is moving away from the safest bonds toward more speculative bonds. When it declines, it means that the smart money is gravitating toward the safer issues and away from risk.

Smart money is that money which flows into equities before a rise

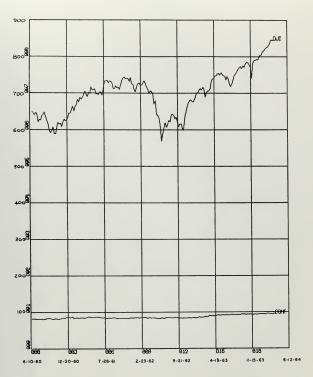


in the market. Conversely, if the market declines, the smart money is that money that jumps out of stocks first. The rationale is to see what the smart money is doing in the bond market, and the investor will know in advance what this money will do in the equity market; either come in or get out.

Figure 11 is a graph of the weekly Confidence Index (CONF) and the Dow Jones Industrial Average (DJI) weekly closing from 10 June 1960 through 26 March 1964. Since the Confidence Index varies only slightly in relation to the Dow-Jones, figure 12 was designed which subtracted 75 from the Index and multiplied the result by 20. This adjustment of the Index does not affect its relative merit if the difference in scale of figure 12 is acknowledged. The Index was also introduced into the Trendex model (TRDX) in figure 12 to determine if this model could be used as a predictive medium. The results were inconclusive. The data are included in appendix I for possible future evaluation.

To emphasize the sensitiveness and accuracy of the Confidence Index in the broadest possible terms, the stock market has never continued to rise following a series of Index declines. In the positive sense, the market has always risen following a rising trend in the Index and has fallen following a declining trend. The lead time is generally two to four months.

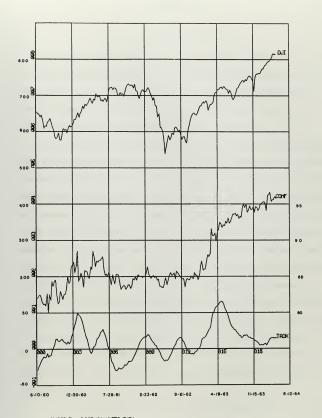




N-SORE - 300E-01 UNITS THON
YOUNG - 100E-02 UNITS THON
DUNHAM 237 BARRONS CONFIDENCE INDEX US DJI
10 JUNE 1960 THRU 26 MAR.1964

FIG. II





K-SORE - 1,00E-60 INTO-INCK
Y-SORE - 1,00E-60 INTO-INCK
DUNHAM 237 BARRONS CONFIDENCE INDEX US TRENJEX
CONFIDENCE INDEX US DUI6/10/60-3/26/64 WEEKLY

FIG. 12



## CHAPTER VII

## CONCLUSION

Investors are constantly on the look-out for reliable means of forecasting stock market movements, particularly ones that signal not only major trends, but also intermediate swings and week to week changes. Scores of these techniques have emerged over the years, but only five or six are widely used. None of these tools is infallible.

Much more sophisticated models are now available as dynamic programming techniques have been developed and computer memory has been enlarged. Com-Stat, a division of Spear & Staff, Inc., Babson Park, Massachusetts, had a model developed which weighs the significance of many fundamental and technical factors that affect the market place. It purportedly employs dynamic programming of price, volume, rate of change, diffusion, momentum, psychology, accumulation, distribution, etc. The most probable trend is forecast based on these changes. By their technique, they claim to have established a \$30,000 portfolio on 22 June 1962 composed of a maximum of 10 stocks each having approximately equal amounts of capital invested in it. On 16 August 1963, after 30 transactions (which included 8 short sales), the portfolio had increased to \$52,783 for a gain of 75.9% in 14 months. This is merely one example of what can be done with an understanding of the stock market, computer programming and dynamic statistical models.

A new book, Granville's "New Key to Stock Market Profits," was received too late to be evaluated. However, this system readily lends itself to computer analysis. In general, he is dealing in the on-balance

volume, which is the difference between the cumulative upside volume and the cumulative downside volume. This can be graphed against the Dow-Jones Average, and it will generally precede the price action. A more sophisticated approach is to analyze the volume of each of the 30 Dow-Jones stocks and determine the upside and downside breakouts. This differential can be used as an indicator in conjunction with the on-balance volume.

The more indicators you watch the better equipped you will be to escape the delusions which attack those who are uninformed. When many indicators say one thing, and the market is seemingly doing the opposite, trust the indicators. That many indicators can't be wrong, because that many people can't be right.



## BIBLIOGRAPHY

- Allen, Leon B. A Method for Stock Profits Without Price Forecasting. Garden City, New York, Doubleday and Company Inc., 1962.
- Brown, Robert Goodell. Smoothing, Forecasting, and Prediction of Discrete Time Series. Englewood Cliffs, New Jersey, Prentice-Hall, Inc., 1963.
- Brown, Robert Goodell. Statistical Forecasting for Inventory Control. New York, New York, McGraw-Hill Book Company, Inc., 1959.
- Coppock, E. S. C. The Madness of Crowds. Barron's, 15 October 1962, p. 5.
- Dell'Aria, Paul S. New Look at the Confidence Index. Barron's, 20 January 1964, p. 9.
- Edwards, Robert D. and John Magee. Technical Analysis of Stock Trends, Fourth Edition. Springfield, Mass., John Magee, 1958.
- Engle, Louis. How to Buy Stocks. Boston, Little Brown and Company, 1957.
- Granville, Joseph E. A Strategy of Daily Stock Market Timing for Maximum Profit. Englewood Cliffs, New Jersey, Prentice-Hall, Inc., 1960.
- Granville, Joseph E. Granville's New Key to Stock Market Profits. Englewood Cliffs, New Jersey, Prentice-Hall, Inc., 1963.
- Granville, Joseph E. Market Forecaster? Barron's, 7 September 1959, p. 9.
- Moore, Arnold. The Timing of Individual Stock Price Movements of "The Market" (unpublished) 1962.
- Porter, Sylvia. Signals Show Upturn Boom. Monterey Peninsula Herald, 1 April 1964.
- Reid, Jesse B. Buy High, Sell Higher. Barron's, 30 December 1963, p. 18.
- Shiskin, Julius. Electronic Computers and Business Indicators. Occasional Paper 57, National Bureau of Economic Research, Inc. 1957.
- Spiegel, Murray R. Theory and Problems of Statistics. New York, New York, Schaum Publishing Co., 1961.



	18	2 C.	17.	12.	v)	-2-	-10.	-18.	-26.	-33.	-39.	44-	-49.	-52	-55	-54.	-52.	-47.	-41.	-33
	1	1.5	2.4	2.8	3.6	-	4.7	9.4	4.3	3.9	2.3	• 5	-2.0	-3.8	-5.5	-6.7	-7.6	-8.5	-9.2	-9.8
	91	4.7	9.6	7.3	8.2	4.6	9.3	8.7	7.8	4.7	₹.	-3.9	-7.5	-10.9	-13.4	-15.1	-11.1	-18.4		
	51	8.5	10.9	12.3	14.1	13.9	13.0	11.7	7.0	.7	-5.9	-11.3	-16.4	-20.1 -	-22.7 -	-25.6 -	-27.6 -	-29.5	-31.6 -19.7	-32.5 -21.1
	<b>2</b>	14.6	16.4	18.8	18.5	17.3	15.6	4.6	6.	-7.8	-15.0	-21.8	-26.7	-30.2	-34.2	-36.8	-39.4	-42.2	4.54-	-44.5
GUIDE	13	20.6	23.5	23.2	21.7	19.5	11.7	-	8.6-	-18.8	-27.3	-33.4	-37.8	-42.7 -	- 0.04-	-49.2 -	-52.7	-54.2	-55.6	-52.1
BUYING	12	28.2	27.8	26.0	23.4	1.1	1.3	-11.7	-22.5	-32.7	-40.1	-45.3	-51.2	-55.2	-59.1	-63.3	- 0.50-	- 66.7	-62.6	-53.1
80.1	Ξ	32.4	30.3	27.3	16.4	1.5	-13.7	-26.3	-38.2	-46.8	-52.9	-59.8	- 64.5	- 689-	-73.8	- 75.9	-77.8	-73.0	-619-	. 6°L4-
TERM	9	34.7	31.2	18.8	1.7	-15.6	-30.0	-43.7	-53.5	4.09-	-68.3	-73.7	-78.8	-84.3	-86.7	- 6*88-	-83.4	-70.8	-54.8	-38.5
LONG	•	35.1	21.1	2.0	-17.6	-33.8	-49.1	-60.2	-68.0	6-91-	-82.9	-88.6	6.46-	9.76-		-93.8	9.61-	9-19-	-43.3	-25.0
9	ω	23.5	2.2	-19.5	-37.5	-54.6	8.99-	-75.5	-85.4	-92.1	4.86-				-4.3 -10.4 -104.3 -100.1	-88.4	-68.5	-48.1	-27.8	0.9-
VERY	-	2.3	•2	-2.0	-3.8	-5.5	1.0-	-7.6	-8.5	-9.2	8.6-	-5.3 -10.5 -105.4	-5.2 -10.8 -108.4	-5.0 - 11.1 - 111.2	- 10.4 -	-8.8	9-9-	9.4-	-2.8	9
×	•	٠,	# 1	7.	-2.1	-2.8	-3.4	-3.9	-4.5	7.4-	-5.1	-5.3	-5.2	-5.0	-4.3	-3.4	-2.3	-1.5	9:-	₹.
TRENDEX	un .	1.8 626.74	.6 628.65	6 630.14	-1.6 630.15	-2.7 629.65	-3.3 630.81	-3.7 631.32	-4.1 632.1C	-4.5 632.41	-4.8 633.28	-5.2 632.99	-5.6 629.86	-6.1 626.11	-6.1 621.36	-5.4 616.65	-4.5 612.0C	-3.4 605.4C	606.92	603.93
	æ	1.8	9.	9	-1.6	-2.7	-3.3	-3.7	-4-1	-14.5	8.4-	-5.2	-5.6	-6.1	-6.1	4-5-	-4.5	-3.4	-2.2	-1.0
	м	618.43	622.20	624.85	626.74	628.69	630.14	630.15	629.65	630.81	631.32	632.10	632.41	633.28	632.99	629.86	626.11	621.36	616.65	612.00
	8	90960 629.86	91660 626.11	92360 621.36	93060 616.65 626.74	00760 612.00	04.609	606.92	603.93	602.53 630.81	601.18	599.20	596.92	594.68	594.43	21660 595.63 629.86	597.78 626.11	600.53 621.36	603.24	11361 606.10 612.00
	-	09606	91660	92360	93060	100760	101460	102160	102860	110460	111160	111860	112560	120260	120960	121660	122360	123060	10661	11361

	-24.	-14.	-5.	.6	.61	30.	.1.	51.	.03	68.	.92	82.	.98	.06	92.	93.	93.	93.	92.	.06	88.	84.	8C.	.91	.0.	.50	5.8	** (%)	48.	# 3°	36°	36.	60 (34 (34	<u></u>
18		'																							_	_	_	_		_	_			
11	-10.5	-10.8	==	-10.4	-8.8	-6.8	-4.8	-2.8	9	1.5	3.8	6.1	7.5	4.6	11.0	13.2	14.6	15.6		17.1	17.4	17.5	17.5	17.2	16.6	16.4	16.3	16.0	15.2	14.4	13.1	12.0	10.7	5.5
9	-21.7	-22.2	-20.9	-17.7	-13.7	9.6-	-5.6	-1.2	3.0	7.6	12.2	15.1	18.8	22.1	26.4	29.1	31.3	32.9	34.2	34.8	35.1	35.1	34.4	33.2	32.8	32.6	32.0	30.4	28.7	26.3	24.0	21.4	19.0	16.5
15	-33.4	-31.3	-26.5	-20.5	-14.4	-8.3	-1.8	4.5	11.4	18.3	22.6	28.2	33.1	39.6	43.7	46.9	45.3	51.3	52.2	52.6	52.6	51.7	19.9	49.2	149.0	47.9	45.6	43.1	39.4	36.0	32.1	28.6	24.8	21.1
2	-41.7	-35.4	-27.4	-19.2	-11.1	-2.4	0.9	15.2	24.4	30.1	37.6	44.2	52.7	58.2	62.5	65.8	4.89	9.69	70.2	70.2	68.8	66.5	9.59	65.3	63.9	8.09	57.5	52.5	48.0	42.7	38.1	33.1	28.1	25.9
13	-44-2	-34.2	-24°C	-13.9	-3.0	7.5	19.0	30.5	37.6	47.C	55.2	6.50	72.8	78.1	82.2	85.5	87.C	1.18	1.18	1.98	83.1	81.9	81.6	19.9	1.97	71.8	65.7	0.00	53.4	47.6	1.1.	35.2	32.3	30.5
2		-28.8	16.7	-3.6	0.6	22.8	36.6	45.2	56.4	66.3	1.67	4.78	93.8	1.86	102.6	4.401	105.3	105.3	63.3	1.66	98.3	6.76	6.56	91.3	86.2	78.8	72.0	64.1	57.1	9.64	42.2	38.8	36.6	35.8
=	-33.6	-19.5	-4.2	10.5	26.€	42.7	52.7	7.59	77.3	92.3	6.131	109.4	115.1	1.611	121.8	122.8	122.8	120.5	116.3	14.7	114.2	6.111	5.901	5.001	61.6	84.0	74.8	7.99	57.9	6.64	45.3	42.7	41.8	38.5
2	-22.2	- 4.8	12.0	30.4	8.84	60.2	75.1	98.4	5.501	116.5	125.0	131.6	136.8	139.2	140.3	140.3	137.7	132.9	131.1	130.5	127.9	7.121	114.9	105.1	0.96	85.5	76.2	66.2	56.3	51.7	48.8	47.8	0.44	39.2
<b>o</b>	-5.4	13.4	34.2	54.9	67.8	84.5	4.66	1.811	31.0	9.04	0.84	153.9	156.6	6.721	157.9	. 0.551	9.64	147.5	6.941	143.8	136.9	129.3	118.2	108.0	96.2	85.7	74.47	63.3	58.2	6.48	53.8	49.5	14.1	43.7
ŒU.	14.9	38.0	0.1.0	75.3	93.9	110.5	31.8	145.6	156.3	164.5	171.0	174.0	175.4	175.4	172.2	166.2 1	163.9	163.2	159.8	152.1	143.6	131.3	120.0 1	1 8.90	95.2	82.7	10.4	7.49	0.19	59.7	55.0	0.64	48.5	48.1
7	1.5	3.8	6.1	7.5	4.5	11.0	13.2	14.6	15.6	16.4	17.1	17.4 1	17.5 1	17.5	17.2	16.6	16.4	16.3	16.0	15.2	14.4	13.1	12.0 1	10.7	9.5	8.3	7.0	6.5	6.1	0.9	5.5	6.4	4.9	8.4
•	1.3	2.4	3.5	4.2	5.3	5.9	1.9	7.0	7.3	7.5	7.8	7.8	7.7	7.5	7.6	7.4	7.3	7.0	8.9	4.9	6.1	5.4	6.4	4.2	3.7	3.3	2.8	2.5	2.2	2.1	2.0	1.8	2.0	2.0
wı	602.53	\$1.109	595.2C	596.92	594.6E	594.43	595.63	597.78	600.53	603.24	906.10	610.47	615.52	619.90	622.29	625.99	629.77	635.5E	639.63	644.15	548.7C	653,38	658.15	662.77	89.399	96.98	672.28	676.0C	680.17	683.3C	685.31	91.889	98.986	690.12
a	•5	7:	2.6	3.3		5.1	6.5	7.6	8.4	8.9	9.3	9.6	6.6	10.0	4.6	9.5	0.6	6.3	9.2	8.8	8.3	7.7	7.1	6.5	5.8	5.0	4.3	3.9	3.9	3.8	3.5	3.0	2.8	2.8
m	04.609	606.92	603.93	602.53	601.18	599.20	596.92	89.465	594.43	595.63	597.78	600.53	603.24	606.10	610.47	615.52	619.90	622.29	6529	629.77	635.58	639.63	644.15	048.70	653.38	658.15	662.77	89.999	669.38	672.28	676.00	680.17	683.30	685.31
2	610.47	615.52	619.90	622.29	6529	629.77	635.58	639.63	644.15	048.70	653.38	658.15	662.77	89.999	669.38	672.28	676.00	680.17	683.30	685.31	688.18	88.889	690.12	69.069	691.38	691.17	96.069	693.01	695.32	697.99	699.34 6	700.91	702.72 6	704.26 6
-	12061	12761	20361	21061	21761	22461	30361	31061	31761	32461	33061	40761	41461	42161	42861	50561	51261	51961	52661	60261	19609	61661	62361	63061	70761	71461 6	72161	72861 6	80461 6	81161 6	81861 6	82561 7	90161 7	90861 7



0 0	;	58.	28°	29.	29.	29.	29.	28.	27.	25.	24.	22.	20.	.8	.7.	. 9	15.	15.	·	÷	*)	15.	÷	٠,	٠,	5.	e cy	i	νn M	. 6.	-6-	.12	-14.	-12
18																			_	_	_	_	_	_	_		_	_		·			1	-
17			6.5	6.1	0.9	5.5	4.9	4.9	4.8	5 • 0	5.1	5.3	5.6	5.5	5.7	5.2	7.7	3.9	# #1	3.3	2.9		2.5	2.4	2.8	2.5	2.6	2.4	2.0	1.9	1.7	1.3	•	•
5		12.9	12.2	11.9	11.0	9.8	P.7	9.6	10.0	10.1	10.6	11.2	10.9	11.3	10.3	8.8	7.8	6.7	9.9	5.8	5.3	5.0	4.9	5.6	5.0	5.2	# ° B	0.4	3.9	W .	2.5	1.3	7	1.3
15		18.3	17.9	16.5	14.7	14.6	14.4	15.0	15.2	15.9	16.8	16.4	17.0	15.5	13.2	11.6	10.1	6.6	8.7	7.9	1.6	7.3	# B	7.5	7.7	7.2	6.0	5.8	5.0	3.8	1.9	2	-2.0	-3.6
14 24.4		23.9	22.0	19.6	19.4	19.3	20.0	20.3	21.2	22.4	21.8	22.6	20.6	17.6	15.5	13.4	13.2	11.5	10.6	10.1	1.6	11.2	10.0	10.3	9.6	7.9	7.7	9.9	5.1	2.5	- 3	-2.6	-4.8	0.9-
13		27.5	24.5	24.3	24.1	24.9	25.4	26.5	28.€	27.3	28.3	25.8	22°C	19.4	16.8	16.4	4.4	13.2	12.6	12.1	14.0	12.5	12.9	12.0	6.6	1.6	8 . 3	6.3	3.1	# · I	-3.3	0.9-	-7.5	-11.6
33.0		29.4	29.1	28.9	29.9	30.4	31.8	33.5	32.8	33.9	30.9	26.4	23.3	20.2	19.7	17.3	15.9	15.1	9.41	16.8	15.0	15.5	14.4	11.9	11.6	6.6	7.6	3.8	7.1	-3.9	-7.2	0.6-	-13.9	-17.2
		34.0	33.7	34.9	35.5	37.1	39.1	38.2	39.6	36.1	30.8	27.2	23.5	23°C	20.2	18.5	17.6	17.0	19.6	17.5	18.1	16.8	13.9	13.5	11.6	8.9	7.7	5	9.4-	4.8-	-10.5	-16.2	-20.1	-23.7
38.8		38.5	39.9	9.04	42.4	44.7	43.7	45.3	41.2	35.2	31.0	26.9	26.3	23.1	21.1	20.1	19.4	22.4	20.0	20.7	19.2	15.9	15.5	13.2	10.1	5.0	9	-5.3	9.6-	-12.0	-18.5	-23.0	-27.1	-28.1
6 # 6 %		6. 11	45.6	47.7	50.3	1.64	50.9	4.6.4	39.6	34.9	30.2	29.6	26.0	23.8	22.7	21.8	25.2	22.5	23.2	21.6	17.9	17.4	14.9	1.4	5.6	9	-5.9	-10.8	-13.5	-20.8	-25.9	-30.5	-31.7	-33.8
8 6.9	,	50.7	53.0	55.9	9.45	56.6	51.5	0.44	38.8	33.6	32.9	28.9	26.4	25.2	24.3	28.0	25.0	25.8	24.0	19.9	19.3	16.6	12.7	6.3	7	9.9-	-12.0	-15.0	-23.1	-28.7	-33.8	-35.2	-37.5	-43.0
7.0	0	5.1	5.3	9.9	5.5	5.7	5.2	7 . 2	0 e	3.4	(N)	5.9	2.6	2.5	2.4	2.8	2.5	2.6	2.4	2.0	1.9	1.7	1.3	9.	7	1	-1.2	-1.5	-2.3	-2.9	7.87	-3.5	-3.8	. E . 4 -
2.3	6.3	2.3	2.6	2.8	2.6	2.5	2.1	1.7	1.5	1.3	1.3	0.1	0.1	6.	0.1	1.2	0.1	3	1.2	=	1.0	٠.	r,	-	2	1	6	-1.0	1.1.	-1.5	-1.7	-1.7	-1.8	-2.0
59.069	69.760	691.36	691.17	96.069	10.569	695.32	56*269	45.24	700.91	702.72	704.26	706.63	707.62	708.95	710.14	711.09	712.85	712.36	711.48	7111.65	712.11	713.33	713.92	714.48	715.45	716.97	719.26	719.78	720.43	719.83	715.32	719.11	718.30	717.30
2.7	7.7	2.7	2.7	2.8	2.9	3.1	3.1	2.7	2.3	2.0	2.0	1.9	1.7	1.6	1.5	1.6	1.5	7.	1.2	6.	6.	1.0	φ.	\$.	-	7	1.3	5	6.1	1.1-	-1.7	-1.8	-2.0	-2.3
3 3 68 18	0000	688.88	690.12	69.069	691.38	691.17	86.069	693.01	695.32	66.769	45.669	16.007	702.72	704.26	706.63	707.62	708.95	710.14	711.09	712.85	712.36	711.48	711.65	712.11	713.33	713.92	714.48	715.49	716.97	719.28	719.78	720.43	719.83	719.32
2 706.63	00.00	707.62	708.95	710.14	711.09	712.85	712.36	711.48	711.65	712.11	713.33	713.92	714.48	715.49	716.97	719.28	719.78	720.43	719.83	719,32	719.11	718.30	717.30	715,52	714.15	713.09	712.58	712.24		709.21	707.38	11.707		702.85
1 91561		92261	92961	100061	101361	102061	102761	110361	111061	111761	112461	120161	120861	121561	122261	122961	10562	11262	11962	12662	20262	20962	21662	22362	30262	30962	31662	32362	33062	40662	41362	41962	42762	50462

18	-20-	-24.	-29.	130	-43.	-52	-63.	-16.	-96-	-103.	-116.	-128.	-138.	-146.	-152.	-154.	-152.	-147.	-139.	-127.	-113.	-97.	-80.	-65.	-50.	-36.	-23.	-15	-2-	~	<u>.</u>	20.	56.	32
11	1	-1.2	-1.5	-2.3	-2.9	13.4	-3.5	-3.8	-4.3	-5.6	-6.7	-8.5	-1C.4	-12.6	-15.3	-19.0	-21.8	-24.3	-26.0	-28°C	-29.2	-30.0	-29.9	-29.1	-27.3	-24.9	-22.1	-18.7	-14.5	-1.0	-7.7	-5.3	-3.2	-1.6
	-2.4	-3.0	4.6	-5.7	8.9-	-7.0	-7.5	-8.6	-11.2	-13.5	-17.1	-20.8	-25.2 -	-30.7 -	-37.9 -	-43.7 -	-48.5	-52.1 -	-56.1	-58.4	- 00.1 -	- 59.7	-58.2	- 24.6 -	- 6.64-	-44.2	-37.4	-29.0	-22.1	-15.4	-10.5	-6.5	-3.1	W)
16	- 4.5	-6.9 -	- 9.8-	10.2 -	- 9.01.	- 11.3	- 12.9 -	- 16.8 -	-2c.2 -1	-25.6 -1	-31,2 -1	-37.8 -2	-46.C -2	- 56.9 -3	-65.5 -3	-72.8 -4	-78.1 -4	-84.1 -5	-87.6 -5	- 1.36-	- 9.68-	-87.3 -5	-82°C -	- 8*#2-	66.3 -1		- 43.6 -	33.1 -2	-23.1 -:	15.8 -	- 1.6-	. 1.4-	8•	ψ) •
15				'	•		•		•	Ċ									Ċ	·		· ·	•					'		'		·	-	_
2	-9.3	-11.5	-13.5	-14.1	-15.0	-17.2	-22.4	-26.9	-34.2	-41.6	-50.4	-61.4	-75.9	-87.4	-97.0	-104.2	-112.1	-116.9	-120.2	-119.4	-116.4	-109.3	-99.8	-88.4	-74.8	-58.1	-44-	-30.8	-21.0	-12.9	-6.3	2	7.3	12.1
13	7 . 7	-16.9	-17.6	-18.8	-21.5	-28.1	-33.6	-42.7	-52°C	-63.C	-76.7	-94.8	-105.2	-121.3	-130.2	-14C.2	-146.1	-150.2	-145.3	-145.5	-136.6	-124.7	-110.5	-93.5	-72.6	-55.1	-38.5	-26.3	-16.1	6.1-	1.3	9.1	15.1	21.9
12	-20.3	-21.1	-22.5	-25.8	-33.7	4.04-	-51.3	-62.4	-75.6	-92.1	-113.8	-131.1	-145.5	-156.3	-168.2	-175.3	-180.3	-179.1	-174.6	-163.9	-149.7	-132.6	-112.2	-87.1	-66.2	-46.2	-31.6	+-19.4	4.6-	1.6	11.0	18.1	26.3	30.2
Ξ	-24.6	-26.3	-30.1	-39.3	-47.1	-59.8	-72.8	-88.2	-1C7.4	-132.7	-152.9	-169.8	-182.3	-196.3	-204.5	-210.3	-200°C	-203.7	-151.2	-174.6	-154.7	-130.9	-101.6	-77.2	-53.9	-36.8	-22.6	-11.0	1.9	12.8	21.1	30.7	35.3	39.9
2	-30.0	-34.4	-44.9	-53.8	-68.4	-83.2	-100.8	-122.8	-151.7	-174.7	-154.0	-2c8.4	-224.3	-233.7	-240.4	-238.8	-232.8	-218.5	-199.5	-176.8	-149.6	-116.2	-88.2	-61.6	-42.1	-25.8	-12.6	2.2	14.6	24.2	35.1	40.3	45.6	52.7
6	-38.7	-50.5	-60.5	-76.9	-93.6	-113.4	-138.1	-170.7	-196.6	-218.3	-234.4	-252.3	-262.9	-270.4	-268.7	-261.9	-245.9	-224.5	-198.8	-168.3	-130.7	-99.3	-69.3	-47.3	-29.1	-14.2	2.4	16.4	27.2	39.5	45.4	51.3	59.3	67.5
80	-56.1	-67.3	-85.5	-104.0	-126.0	-153.5	-189.6	-218.4	-242.6	-260.4	-280.4	-292.1	-300.5	-298.5	-291.0	-273.2	-249.4	-220.9	-187.0	-145.2	-110.3	-77.0	-52.6	-32,3	-15.7	2.7	18.3	30.2	43.9	50.4	57.0	65.9	75.0	87.3
7	-5.6	-6.7	-8.5	- 10.4	-12.6	- 15.3	- 19.0	-21.8	-24.3	-26.0	-28.0	-29.2	-30.0	-29.9	-29.1	-27.3	-24.9	-22.1	-18.7	-14.5	-11.0	-7.7	-5.3	-3.2	-1.6	*)	1.8	3.0	4 • 4	5.0	5.7	6.6	7.5	8.7
•	-2.6	-3.1	-4.0	-5 °C	-6.2	-7.5	-9.3	-10.6	-11.9	-12.8	-13.7	-14.0	-14.2	-13:8	-13.3	-12.1	-10.7	-8.8	9.9-	4.8	-3.4	-1.8	- B	-	9.	1.2	1.5	1.8	2.2	2.4	2.3	2.6	3.2	4.2
W)	715.52	714.15	713.09	712.58	712.24	710.38	709.21	707.38	11.707	705.57	702.85	697.19	692.13	684.62	676.93	668.25	657.13	54.549	632.28	622.79	615.27	606.27	595.56	593.80	50.065	586.96	587.10	584.94	586.90	585.03	593.07	594.37	595.17	594.85
#	-3.0	-3.6	-4.6	-5.4	4.9-	-7.8	1.6-	-11.2	-12.3	-13.2	-14.3	-15.2	-15.8	-16.0	-15.8	-15.2	-14.3	-13.3	-11.9	1.6-	-7.6	-5.9	-4.5	-3.4	-2.1	6	ε,	1.2	2.2	2.7	3.4	3.9	4.3	4.5
м	719.11	718.30	717.30	715.52	714.15	713.09	712.58	712.24	710.38	709.21	707.38	11.707	705.57	702.85	697.19	692.13	684.62	676.93	668.25	657.13	643.49	632.28	622.79	615.27	606.27	599.56	593.80	590.09	586.96	587.10	586.96	586.90	589.03	593.07
8	697.19	692.13	684.62	676.93	668.25	657.13	643.49	632.28	622.79	615.27	606.27	599.56	593.80	590.09	586.96	587.10	586.96	586.90	589.03	593.07	594.37	595.17	594.89	594.59	593.36	593.99	595.82	597.41	599,80	602,89	606.83	610.08	614.28	619.91
-	51162	51862	52562	60162	60862	61562	62262	62962	70662	71362	72062	72762	80362	81062	81762	82462	83162	90762	91462	92162	92862	100562	101262	101962	102662	110262	110962	111662	112362	113062	120762	121462	122162	122862

9	38.	45.	54.	64.	74.	8 p.	93.	101	105.	108	109.	108.	106.	102.	97.	51.	8.48	78.	72.	67.	63.	61.	60.	60.	61.	61.	61.	61,	55.	41	51.	45.	. 61	M) N)
21	۳.	1.8	3.0	# #	2.0	5.7	9.9	7.5	8.7	10.5	12.8	15.3	17.9	19.9	20.9	21.5	21.4	20.6	15.8	18.8	18.0	16.9	15.6	7:	12.5	11.7	10.5	10.1	10.1	10.0	10.8	1.	11.8	1.8
	3.7	0.9	8.8	10.1	1.4	13.2	15.0	17.5	21.0	25.6	30.6	35.8	39.7	1.9	42.9	42.8	41.3	39.6	37.6	36.0	33.8	31.2	28.2	25.9	23.5	21.0	20.1	20.1	20.1	21.6	22.9	23.5	23.6	23.1
92	9.1	3.2	5.1	7:1	9.8	22.5	26.2	31.5	38.4	6.54	53.7	9.69	62.8	64.4	64.2	61.9	59.5	56.5	54°0	50.7	46.8	42.3	38.8	35.2	31.4	30.2	30.2	30.1	32.4	34 • 3	35.3	35.5	34.7	33.1
15		_	_	_		•					-											_		,								,		
<b>1</b>	17.5	20.2	22.8	26.4	30.0	34.9	42.1	51.2	61.2	71.5	16.4	83.8	85.8	85.6	82.5	79.3	75.3	72.0	67.6	62.5	56.4	51.7	47.0	41.9	40.3	40.2	40.1	43.1	45.7	47.1	47.3	46.2	44.	4.04
13	25.2	28.5	33°C	37.5	43.7	52.6	0.49	76.5	89.4	99.3	104.7	107.3	107.0	103.1	1.66	94.1	0.06	84.5	78.1	70.5	9.49	58.7	52.4	50.3	50.3	50.1	53.9	57.2	58.8	59.1	57.8	55.2	50.5	44.2
12	34.2	39.5	15.0	52.4	63.1	16.8	91.8	107.3	119.1	125.7	128.8	128.4	123.8	118.9	112.9	108.0	101.4	93.7	84.5	77.6	70.5	65.9	4.09	60.3	60.2	64.7	9.89	70.6	70.9	69.3	66.2	9.09	53.1	43.6
Ξ	46.1	52.5	61.1	13.6	89.6	1.7.1	125.2	139.0	146.6	150.2	149.7	144.4	138.8	131.7	126.1	118.3	109.3	98.6	90.5	82.2	73.4	70.5	10.4	70.2	75.5	90.0	82.4	82.7	80.9	77.2	9.07	61.9	6.35	41.6
21	0.00	6.69	84.1	102.4	122.4	143.1	158.8	167.5	171.7	171.1	165.0	158.6	150.6	144.	135.2	124.9	112.7	103.4	0.46	83.9	80.5	80.4	80.2	86.3	91.4	94.1	9.46	92.4	88.3	80.7	70.8	58.1	47.5	38.1
o	78.6	9.46	115.1	137.7	161.0	178.7	188.5	193.2	192.5	185.6	178.4	169.4	162.1	152.1	140.5	126.8	116.4	105.7	94.3	9006	90.5	90.2	1.16	102.9	105.9	106.4	104.0	99.3	90.8	79.6	65.4	53.4	42.9	30.6
ω	105.1	127.9	153.0	178.8	198.5	209.4	214.6	213.9	206.3	198.2	188.2	180.1	1691	156.1	140.9	129.3	117.4	104.8	10001	100.5	100.3	107.9	114.3	117.7	118.2	115.5	110.3	100.9	88.5	72.7	59.4	1.7.7	34.1	24.8
4	10.5	12.8	15.3	17.9	19.9	20.9	21.5	21.4	20.6	19.8	18.8	18.0	16.9	15.6	14.1	12.9	11.7	10.5	10.1	10.1	10.0	10.8	11.4	11.8	11.8	11.6	11.0	10.1	8.8	7.3	5.9	4.8	H . El	2.5
•	5.2	9.9	7.7	8.8	9.6	6.6	10.1	9.8	4.6	8.9	8.2	7.6	6.9	6.1	5.1	9.4	4.3	14.0	.;	7. 1	9.4	5.0	5.2	5.3	5.3	5.1	8.4	7.7	3.8	3.0	2.3	1.7	6.	<i>a</i> ,
'n	594.59	593.36	56.565	595.82	597.41	599.80	602.89	606.83	610.08	614.28	16.219	625.73	632.28	639.91	648.43	654.48	659.38	663.65	666.48	667.28	668.84	671.02	673.43	675.82	678.92	681.75	684.76	49.789	690.33	993.66	49.969	49.569	704.81	708.65
27	5.3	6.2	7.6	9.1	10.3	11.0	- -	11.6	11.3	10.9	10.6	10.4	10.0	9.5	9.0	8.3	7.5	6.5	0.9	5.7	5.4	5.8	6.2	4.0	6.5	4.9	6.2	5.7	5.1	14.3	3.6	3.1	2.5	2.1
m	594.37	595.17	594.89	594.59	593.36	593.99	595.82	597.41	599.80	602.89	606.83	610.08	614.28	16.619	625.73	632.28	639.91	648.43	654.48	659.38	663.65	84.999	667.28	48.899	671.02	673.43	675.82	678.92	681.75	684.76	49.189	690.33	693.66	49.969
5	625.73	632.28	16.629	648.43	654.48	659.38	663.65	84.999	667.28	48.899		673.43	675.82	678.92	681.75	684.76	49.189	690.33	93.66	19.969	19.669	704.81	708.65	711.87	714.84 (	716.71	117.79	717.73	716.36	714.22	712.67	711.52	01.117	711.30
-	10463	11163	11863	12563	20163	20863	21563	22163	30163	30863	31563	32263	32963	40563	41163	41963	42663	50363	51063	51763	52463	53163	60763	61563	62163	62863	70563	71263	71963	72663		80963	81663	82363



	27.	21.	16.	12.	۶.	7.	7.	. 5	13.	18.	23.	.63	4 4	38.	-1-	e 2 a	45.	* 9 17	46.	45.	4.4	M 2 .	.04	35.	.88	3 6°		43.	, 6 ·	.64	5.3.
18			_	<b>m</b>	m	(P	a)		S	•	αu	,	,	2	8	_	S	23	5	0	9	M)	a	ç	•		m	80	27	0	2
17	=	11.0	10.	8.8	7.3	5.5	4.8	3 . 4	2.5	1.6	8	₹.	7.	٠.	1.2	2.1	3.5	5.3		8.0	8.6			_		B.4	8.3	7.8	7.4	7.0	,
91	22.1	20.2	17.7	14.5	11.9	9.5	6.8	5.0	3.3	1.5	80	₩.	1.3	2.4	4.2	7.1	10.6	13.8	16.0	17.2	16.5	16.9	-	17.2	16.8	16.5	15.6	14.9	14.0	13.0	12.4
15	30.3	26.5	21.8	17.8	14.3	10.2	7.4	6.4	2 • 3	1.3	1.2	2.C	3.6	6.3	10.6	16.0	20.7	24.0	25.8	24.8	25.3	25.9	25.8	25.3	24.8	23.3	22.3	21.0	19.4	18.6	19.7
2	35.4	29.1	23.8	19.1	13.6	6.6	6.5	3.0	1.7	1.6	2.7	£ • 8	8.3	14.1	21.3	27.6	32.0	34.4	33.0	33.8	34.6	34.3	33.7	33.1	31.1	29.7	27.9	25.9	24.8	26.3	28.1
13	36.3	29.7	23.8	17.C	12.4	8 • 2	3 . 8	2.1	2 . €	60 6 63	3-9	10.4	17.7	26.6	34.5	0.04	43.0	41.3	42.2	43.2	42.9	42.1	4.1.4	38.9	37.2	34.9	32.4	31.0	32.8	35.1	41.5
2	35.6	28.6	20.4	14.9	9.8	4.5	2.5	2.4	0.4	7.2	12.5	21.2	31.9	4.1.4	1.84	51.6	9.64	50.7	51.9	51.5	50.5	9.64	1.94	9.44	41.9	38.9	37.2	39.4	42.1	8.64	95.0
=	33.4	23.8	17.3	11.5	5.3	3.€	2.8	4.6	8.4	14.6	24.8	37.3	48.3	56.1	60.2	57.8	1.65			58.9	6.16	54.5	52.0	48.9	45.4	43.4	0.94	1.64	58.1	64.2	8.19
2	27.2	19.8	13.1	6.1	3.4	3.2	5.3	9.6	16.7	28.3	42.6	55.2	64.1	8.89	1.99	67.6	69.2	7.89	4.73	66.2	62.3	59.5	55.9	61.9	9.64	52.5	56.1	4.99	73.4	77.5	82.4
6	22.3	14.7	8 * 9	3.8	3.6	0.9	10.9	18.8	31.8	47.9	62.1	72.1	77.4	74.4	76.0	8.17	77.3	75.8	74.4	70.0	6.99	65.9	58.3	55.8	59.1	63.1	74.7	82.5	87.2	92.7	4.86
œ	16.4	7.6	4.2	0.4	9.9	12.1	20.9	35.4	53.2	0.69	80.1	86.0	82.6	84.4	86.5	6.53	84.2	82.7	17.8	74.3	8.69	8.4.9	62.0	1.59	1.07	83°C	7.16	6.96	0.50	109.3	114.6
7	1.6	₩.	₹.	7.	٠.	1.2	2.1	3.5	5 . 3	6.9	8.0	8.6	8 3	# · B	8.6	8.6	# B	e 63	7.8	7.4	7.0	6.5	6.2	9.9	7.0	8.3	9.2	6.7	10.3	10.9	11.5
v	7	- 3	# 1	2	-	9.	1.3	2.1	3.0	3.7		4.3	0 * 77	0 * 7	J * 77	8° E	3 7	3 . 6	3.2	2.9	2.5	2.4	2.5	3.0	3.3	J. 4	4.2	4.5	a.	5.1	5.3
wn	711.87	714.84	716.71	717.75	717.73	716.36	714.22	712.67	711.52	711.10	711.30	711.48	712.48	714.16	716.26	718.65	720.85	723.47	727.84	732.93	737.23	4.1 740.49	742.09	741.19	742.82	744.73	746.28	747.70	749.62	751.36	753.86
	1.7	:	8	9.	•5	9.	8	7.	2.3	3.2	3.9	4.3	4.2	7.7	4.7	1.7	7.4	1.7	9.4	9.4	4.5		3.7	3.6	3.7	4.3	6.4	5.2	5.5	. 8.5	6.2
4	24	1.	55	17	7	=	6.	20	9	2	7	2	0	0	8			9	5	5	1	2	3	100	6	6	6	2	ĸ	89	0
м	49.669	704.81	708.65	7111.87	714.84	716.7	717.79	717.73	716.36	714.22	712.67	711.52	711.10	711,30	711.48	712.48	714.16	716.26	718.65	720.85	723.47	727.84	732.93	737.23	740.49	742.09	741.19	742.82	744.73	746.28	747.70
2	711.48	712.48	714.16	716.26	718.65	720.85	723.47	727.84	732.93	737.23	740.49	742.09	741.19	742.82	744.73	746.28	747.70	749.62	751.36	753.86	755.79	757.90	760.33	74.697	767.67	774.25	777.82	781.35	785.66	789.72	793.80
-	83063	90663	91363	92063	92763	100463	101163	101863	102563	110163	110863	111563	112263	112963 742.82	120663	121363	122063	122763	10364	11064	11764	12464	13164	20764	21464	22064	22764	30664	31364	32064	32664



 96.46	93.34	588.75	10.78	82.65	177.55	171.93	90-999	575.18	36.089	577.92	580.36	585.24	588.23	590.82	596.07	597.63	502.25	612.01	19.809	604.8C	606.87	6C4.77	602.18	603.62	6C4.54			606.47	605.43	602.4C	607.22	S	20.965
		85.819				17.14		5.69										605.87								08.909	14.939	90.909	0	63	6C4.89	C	70
		621.79				619.87	010.619	618.99	618.59											20		73	88	615.44	15,33	15.24		615.03	-		614.81	614.73	614.64
		101860		0500	2160	02460					03160				110460			111060		111460	111560	111660	111760	111860	112160	112260	112360	25	00	112960	C	120160	0



	93	Ξ.	604.62	605.17	610.90	611.94	611.72	612.68	610.76	~	615.56	614.82	5.4	3,3	613.23	613.36	615.75	616.19	615.89		2.1	•	621.64	624.42	625.72	9	628.5C	633.65	633.19	628.96	634.10	632.39	634.37	6
2		603.32	603.07	602.86	602.72	602.60	602.55	602.58	602.67	6C2.78	602.92	12.539		662.95	602.55	602.59	90°E39	(4)	603.09	6C3.C3	603.07	603.C7	603.03	6C3.C3	603.03	603°C4	90.509	603.11	603.13	6C3.C4	602.97	602.52	602.90	602.95
202	614.49	614.34	614.23	614.14	614.05	613.95	613.86	613.79	613.73	613.76	m	613.84	613.93	613.96	614.01	614.05	614.09	614.11	614.11	614.09	614.11	614.14	614.16	614.17	614.18	614.20	614.23	614.30	614.37	614.43	614.52	614.59	614.65	614.71
LAIE	120560	120660	120760	120860	120960	121260	121360	121460	121560	121660	121960	122060	122160	122260	122360	122760	122860	122960	CV.	10361	10461	10561	10661	10961	11061	111161	11261	11361	11661	11761	11861	11961	12061	12361

Ira

200

CATE



Ira	8.7	637.72	8	643.55	49.059	648.2C	649.35	653.62	652.97	645.65	643.54	648.85	645.12	639.67	637.C4	642.91	59*849	651.86	651.67	653.65	652.4C	654.42	655.¢C	660.44	662.CB	663.03	669.35	671.57	674.46	667.14	666.15	663.33	663.56	664.44
100	603.08	603.19	603.32	663.51	603.80	604.16	46.409	46.439	605.37	605.71	26.00	95.909	65.939	607.52	00.800	608.45	90.509	605.72	610.47	611.26	612.09	612.53	613.68	614.51	615.40	616.24	617.10	617.95	618.82	915.60	62C.41	621.13	621.80	622.51
200	614.76	614.80	614.87	614.96	615.08	615.17	615.26	615.40	615.57	615.70	615.84	616.03	616.20	616,35	616.51	616.72	616.97	617.19	617.39	617.62	617.84	618.08	618.33	618.60	618.87	11.619	619.37	619.61	619.87	62C.C8	620.29	620.49	620.70	620.91
CATE	12461	12561	12661	12761	13061	13161	20161	2C2 6 1	20361	20661	20761	20861	20961	21061	21361	21461	21561	21661	21761	22061	22161	22361	22461	22761	22861	30161	30261	30361	30661	30761	30861	30961	31061	31361



•				8					671.03	95.689	676.41	676.63	65.779		:	679.34	683.68	692.C¢	694.11	690.16	692.C2	693.72	696.72	690.60	686.21		5	•	3.0	682.18	19.5	78.7	677.05
623.23	653.59	624.87	625.86	626.53	628.05	62,679	63C.C4	630.98	631.89	632.74	633.62	24.459	635.29	036.10	636.85	637.53	638.28	639.15	64C.C2	640.87	641.77	642.67	643.60	54.449	645.23	646.11	05-949	647.61	648.37	645.24	82.359		651.73
621.11	621.30	621.52	621.78	622.03	622.28	622.49	622.64	622.75	622.83	622.9C	623.00	623.11	623.25	623.41	623.54	623.70	623.89	624.12	624.36	624.57	624.82	625.10	625.39	625.64	625.87	626.08	626.31	626.45	626.63	626.84	627.06	627.30	627.53
31461	31561	31661	31761	32061	21	22	23	32461	32761	32861	32961	33061	40361	40461	40561	1,0661	40761	41061	41161	41261	41361	41461	41761	41861	41961	42061	42161	42461	42561	42661	42761	42861	19125
	621.11 623.23 661.	461 621.11 623.23 661. 561 621.30 623.59 662.	621.11 623.23 661. 621.30 623.59 662. 621.52 624.67 670.	621.11 623.23 661.01 621.30 623.59 662.61 621.52 624.67 670.31 621.78 625.86 676.4	621.30 623.53 661. 621.30 623.59 662. 621.52 624.8T 676. 621.78 625.86 676. 622.03 626.53 676.	621.30 623.53 661.00 621.52 624.87 670.31 621.52 624.87 670.31 621.78 625.86 670.41 622.28 626.63 678.7	621.11 623.23 6614. 621.52 624.67 670. 621.53 625.66 676.1 622.03 626.53 676.1 622.48 626.55 679.	621.30 623.23 6614. 621.30 623.55 66. 621.78 625.66 676. 622.03 626.63 676. 622.28 628.05 678. 622.49 629.05 675. 622.64 635.04 675.	621.11 623.23 661-1 621.30 623.59 662. 621.78 623.69 676-1 622.03 626.53 676-1 622.49 629.09 678-1 622.49 630.09 678-1 622.49 630.09 678-1 622.49 630.09 678-1	621.11 623.23 661.4 621.52 628.59 676.1 621.53 625.66 676.1 622.03 625.66 676.1 622.03 626.53 676.1 622.49 629.69 679.1 622.49 630.64 675.1 622.64 630.64 675.1 622.83 631.89 671.1	621.11 623.23 621.23 621.30 623.46 621.30 623.48 622.48 622.48 622.49	621.11 623.23 621.67 621.67 621.67 621.67 622.68 628.65 622.68 628.65 622.49 628.65 622.49 632.40 632.49 632.40 632.49 632.49 632.49 632.49 632.49 632.49 632.49 632.49 632.40 632.49 632.40 63	621.30 623.23 623.23 621.30 623.49 621.30 622.49 620.49 620.49 622.40 622.40 622.40 623.40 623.40 623.40 623.40	621.37 623.53 661. 621.36 623.59 626.81 660. 621.78 625.86 676. 622.03 626.53 678. 622.03 626.53 678. 622.04 626.53 678. 622.49 626.59 679. 622.49 630.04 677. 622.83 631.89 671. 622.83 631.89 671. 622.90 632.74 669. 623.00 633.74 669. 623.00 633.74 669.	621.30 623.53 661. 621.30 623.59 622.69 622.69 622.28 622.28 622.59 679. 622.49 622.59 679. 622.49 622.69 679. 622.75 632.69 679. 622.75 632.69 679. 622.75 632.69 679. 622.75 632.69 679. 622.75 632.99 671. 622.90 633.79 679. 623.11 634.47 676.	621.33 623.54 661.62.62.62 621.52 621.53 622.54 622.54 622.54 622.54 622.54 622.64 622.65 622.64 622.64 622.65 622.64 622	621.37 623.23 661. 621.36 623.49 620.81 676. 621.37 625.86 676. 622.03 626.43 678. 622.03 626.43 678. 622.04 626.65 678. 622.04 630.00 677. 622.83 630.00 677. 623.90 632.74 669. 622.83 631.89 671. 623.90 632.74 669. 623.90 632.74 669. 623.90 633.42 673.63	621.30 623.59 661.  621.30 623.59 622.69 622.03 626.53 678.  622.03 626.53 678.  622.03 626.53 678.  622.04 636.05 679.  622.04 636.09 679.  622.05 636.99 679.  622.06 633.09 671.  623.06 633.09 671.  623.07 633.09 671.  623.08 636.08 671.  623.08 636.08 671.  623.09 633.09 671.  623.09 633.09 671.	621.30 623.59 661. 621.30 623.59 622.69 670. 621.78 625.66 670. 622.03 626.53 670. 622.03 626.53 670. 622.04 620.09 679. 622.04 630.09 679. 622.05 631.89 671. 622.06 632.76 632.79 677. 622.06 632.70 632.74 669. 623.00 633.41 634.47 676. 623.50 633.41 636.16 679. 623.50 633.41 636.16 679. 623.50 633.42 633.62 670. 623.50 633.42 636.85 670.	621.30 623.45 661. 621.30 623.49 676. 621.30 623.49 676. 621.03 625.48 676. 622.49 626.45 676. 622.49 620.49 675. 622.49 620.49 675. 622.49 632.49 675. 622.83 632.99 677. 622.83 632.99 677. 622.83 633.89 677. 623.40 633.40 647. 623.40 633.40 677. 623.40 633.40 677. 623.40 633.40 677. 623.40 633.40 677. 623.40 633.40 677.	621.30 623.59 661. 621.30 623.59 622.69 622.03 622.03 622.89 622.03 622.90 679. 622.03 622.9 679. 670. 622.04 622.28 622.9 679. 622.49 622.9 679. 622.8 632.9 679. 622.8 631.89 671. 622.8 631.89 671. 622.9 633.9 631.89 671. 623.0 633.4 634.47 676. 623.2 633.0 634.47 676. 623.2 633.0 634.8 671. 623.4 636.8 637.6 671. 623.4 636.8 637.6 693.	621.30 623.23 661. 621.30 623.59 662. 621.32 622.8 628.65 676. 622.48 628.65 679. 622.49 629.69 679. 622.49 629.69 679. 622.49 629.69 679. 622.50 632.90 677. 622.90 633.79 671. 623.71 633.79 671. 623.90 633.62 670. 623.11 628.12 670. 623.11 628.12 671. 623.10 633.62 671. 623.11 636.10 671. 623.11 631.47 670. 623.11 631.47 670. 623.11 628.12 671.	621.23 621.29 622.20 621.29 621.20 621.29 622.20 62	621.33 623.59 661. 621.34 623.59 662. 621.35 624.87 670. 622.03 626.53 678. 622.03 626.53 678. 622.04 630.04 675. 622.04 630.04 675. 622.05 630.04 675. 622.05 630.04 675. 623.00 633.42 679. 623.00 633.42 679. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670. 623.41 634.47 670.	621.30 623.53 661.62 622.23 622.63 622.63 622.63 622.53 622.63 622.64 62	621.37 623.23 661. 621.36 623.59 676. 621.37 625.66 776. 622.03 626.53 776. 622.03 626.53 776. 622.04 620.59 679. 622.04 620.59 679. 622.04 630.59 677. 622.04 632.09 677. 622.05 632.10 683.74 669. 623.11 623.15 632.09 677. 623.11 623.15 632.09 677. 623.25 632.16 632.16 677. 623.26 632.16 632.17 676. 623.27 632.18 683.18 683.11 627. 623.28 632.18 632.18 683.11 627. 623.29 632.18 632.18 633.11 623.18 633.	621.33 623.54 661.62.52 661.53 621.53 621.54 621.55 622.63 622.63 622.53 622.64 632.65 632.64 632.65 632.64 632.65 632.64 632.65 632.64 632.65	621.30 623.45 661.00 621.30 623.45 662.00 621.30 623.45 670.38 622.43 625.80 670.49 622.49 629.05 670.37 622.49 629.05 670.37 622.49 629.05 670.37 622.49 630.05 670.37 622.50 632.70 670.41 623.71 623.70 690.50 623.51 624.77 670.43 623.52 632.75 670.41 623.10 624.77 670.43 623.54 626.56 671.35 623.55 632.75 690.17 623.41 624.77 690.17 623.49 630.60 690.11 624.77 640.67 690.11 625.60 640.67 690.11	621.30 623.53 661.00 621.30 623.50 622.60 621.30 623.50 623.50 622.60 622.03 622.03 622.03 622.03 622.03 622.04 622.03 622.04 622.03 622.04 622.05 622.04 622.05 622.04 622.05 622.04 622.05 622.04 622.05 622.04 622.05 622.04 622.05 622.04 622.05 622.04 622.05 622.04 622.05 62	621.30 623.53 661.00 621.30 623.59 622.60 621.30 623.59 670.89 622.03 626.53 670.89 622.04 629.05 670.89 622.04 629.05 670.99 622.04 620.04 670.09 622.04 630.04 670.09 622.05 632.70 632.74 669.59 1 623.11 623.11 624.47 670.63 1 623.11 62	621.30 623.23 661.60 621.30 623.59 623.59 622.03 626.53 678.41 622.03 626.53 678.42 622.04 622.05 670.43 622.04 622.05 670.43 622.05 626.53 678.43 622.05 626.53 678.43 622.05 626.53 678.43 622.06 623.06 623.05 623.06 623.07 676.49 623.07 623.07 623.07 623.08 623.07 676.49 623.08 623.08 623.09 623.08 623.09 672.09 623.09 623.09 672.09 623.00 623.09 623.00 62	621-37 623-23 661-05 621-55 62	621.30 623.23 661.61.61.621.30 623.23 661.61.61.621.30 623.39 622.03 622



=	682.34	C.D.	652.25	19.069	90.689	686.52	686.61	54.089	687.51			705.52	701.14	105.96	762.44	100.55	696.52	490.16		ç	695.37	27.769	703.43	703.79	700.86	701.65	700.90	696.76	Ξ.	695.81	691.27	685.50	0.6	687.87
100	5	653+34	654.16	46.439	655.72	656.46	657.22	15.733	658.63	24.559	666.23	661.15	662.03	662.95	663.82	664.67	665.47	666.27	667.02	91.139	668.50	665.23	676.01	670.77	671.50	672.18	672.85	673.53	674.13	674.77	45.34	675.79	676.21	676.71
20C	627.79	628.10	628.44	628.77	629.13	629.52	45.629	630.34	630.77	631.21	631.61	632.05	632.49	632.97	633.44	633.87	634.28	634.65	635.05	635.42	635.76	636.13	636.52	636.91	637,28	637.64	637.99	638.29	638.55	638.84	639.12	639.37	639.64	639.95
CATE	50261	50361	50461	50561	50861	50961	51061	19115	51261	51561	51661	51761	51861	51961	52261	52361	52461	52561	52661	53161	66161	66261	60561	60661	66761	60861	60961	61261	61361	61461	61561	61661	61961	62061



ניז	656.09	685.62	688.66	681.16	683.88	684.59	£81.55	683.96	689.81	692.77	694.27	692.73	693.16	654.47	52.069	06-589	650.55	654.59	679.30	682.74	682.97	682.81	682.14	686.37	694.19	702.80	705.13	765.37	713.94	710.46	115.71	720.69	719.58	720.22	
100	817.18	677.60	611.55	678.31	678.66	678.57	679.26	49.519	680.10	6EC.54	661.03	681.56	662.12	682.64	6E3.C6	683.4C	663.79	01.499	684.37	664.65	684.53	685.15	685.35	665.58	665.83	686.14	686.45	686.83	687.31	667.78	6EE.3C	688.87	685.45	£3.359	
200	640.25	95.049	640.89	641.24	641.60	641.95	642.32	642.68	643.10	643.55	644.01	46.446	645.06	645.56	90.949	646.56	647.13	89.749	648.23	648.79	649.31	649.83	650.38	650.91	651.47	652°C5	652.64	653.22	653.86	654.45	655.05	655.69	656.34	657.01	
CATE	62161	62261	62361	62661	62761	62861	62961	63061	70361	70561	70661	16761	71061	71161	71261	71361	71461	11761	71861	71961	72061	72161	72461	72561	72661	72761	72861	73161	80161	8C261	86361	86461	86761	EC861	



-																																			
167	717.57	720.45	722.61	CD	716.18	718.20	721.84	723.54	724.75	725.76	720.46	714.03	716.70	716.01	714.15	716.90	721.19	718.72	726.C1	726.53	720.91	714.36	722.61	722.20	ŝ		-			706.31	701.57		93.2	701.13	
100	950.50	45.363	691.37	691.78	652.14	652.57	693.07	693.59	41.459	654.64	695.C7	44.259	695.82	656.21	656.55	68.959	697.18	697.42	657.78	658.13	098.4C	656.58	06.869	699.26	655.56	659.87	700.26	700.45	700.70	76.337	701.20	701.35	_	701.58	
200	657.68	658.4C	659.15	16.659	660.62	661.31	662.03	662.74	663.44	664.13	664.77	665.36	96-599	666.53	667.CW	667.58	668.16	668.72	669.33	669.95	670.54	671.09	671.69	672.29	672.83	673,39	673.93	674.41	674.97	675.52	676.07	45.54	676.98	677.46	
CATE	80961	19018	19118	19413	19518	81661	19713	81861	82161	82261	82361	82461	82561	82861	82961	82061	19135	90561	90661	19236	50861	91161	91261	13612	91461	91561	91861	19615	92061	92161	92261	52561	52661	92761	

:	200 38	4 0	17.10	659.63	99.869	703.31	708.45	708.25	96.869	705.42	706.67	705.62	705.5C	703.31	703.15	701.98	704.20	764.85	705.62	697.24	700.72	700.68	47.869	701.05	703.92	703.84	706.83	709.26	714.60	723.74	722.28	724.83	728.43	2	734.34
	321	701 33	21.13	761.67	701.59	702.16	762.38	702.58	702.65	702.72	702.74	702.78	702.78	702.78	702.81	702.86	703.01	703.09	703.18	703.20	703.23	703.20	703.15	703.15	703.18	763.20	763.31	703.46	703.64	763.57	7C4.34	7C4.78	705.18	705.65	706.14
	200	16.110	678.36	678.80	679.23	619.69	680.14	680.61	661.03	681.48	46.189	682.40	682.87	683,30	683.74	684.17	484.64	685.06	685.47	685.85	686.23	09.989	96.939	687.32	687.68	688,63	688.42	688.79	689.21	689.65	650.06	64069	96*059	651.42	691.87
	CATE	92601	52961	100261	100361	100401	100561	100661	102361	106331	10101	101101	101261	101361	101661	101761	101861	101961	102061	102461	102561	102661	102761	103061	103161	110161	110261	110361	110661	110861	110961	111061	111361	111461	111561



Ira	33.3	29.5	730.05		30.4	732.60	٥.	28.	3	5	28.8	731.22	731.31	730.05	726.45	728.23	732.54	734.02	134.91	730.94	729.40	127.71	•	722.57	C	•	•	=	31.	-	;	26.	22.5	714.84
100	706.58		707.53	7.07.58	708.46	708.55	765.37	709.72	710.05	716.34	710.70	711.06	711.47	111.51	712.27	712.70	713.23	713.75		714.75	715.22	715.63	715.92	116.11	716.26	716.42	116.51	716.72		716.58	717.03	717.09	41.717	717.CB
200	692.28	692.69	693°C9	693.47	693.86	694.29	694.73	695.13	45.54	695.95	14.969	696.85	697.26	697.65	698.03	04.869	698.80	699.20	09.669	96*669	700.29	700.61	700.87	701.13	701.36	701.63	701.91	702.25	702.59	702.92	703.24			704.01
CATE	111661	111761	112061	_	112261	112461	~	28	112961	113061	120161	120461	120561	120661	120761	120861	121161	212	121361	121461	121561	121861	121961	~	122161	122261	122661	122761	122861	122961	10262	C3	10462	10562

103	708.98	707.64	706.02	710.67	7111.73	709.54	704.93	700.64	54.459	11.169	701.98	45.954	698.17	696.52	692.19	689.92	53.459	700.00	702.54	706.55	706.14	710.35	715.73	716.82	714.27	714.92	714.32	713.67	717.27	716.46	714.36	715.55	3	
100	716.95	716.84	716.73	716.66	716.56	716.42	716.22	715.57	115.71	715.55	715.40	715.23	715.07	714.86	714.57	714.28	713.57	713.70	713.52	713.44	713.27	713.16	713.16	713.17	713.20	713.32	713.39	713.47	713.62	713.67	714.08	714.22	714.35	
200	704.16	764.31	7C4.44	704.62	704.81	7C5.CC	705.18	705.30	705.39	705.49	705.61	705.72	105.81	705.87	705.87	705.85	705.87	105.91	105.96	10.907	706.08	706.21	706.36	706.52	706.73	706.89	707.05	707.22	107.41	16.727	75.73	767.90	708.01	200
CATE	10862	10962	11062	11162	11262	11562	11662	11762	11862	11962	12262	12362	12462	12562	12662	12962	13062	13162	20102	20262	20562	20662	20762	20862	20962	21262	21362	21462	21562	21662	21962	22062		22342

100	5.2	2	708.05	711.81	711.00	55*601		706.63	713.75	714.44	714.68	S	20.	723.54	722.77	720.36	719.66	716.62	716.35	716.46		-	5		706.95	765.42	700.60	88.969	700.8E	29.659	692.96	5.4	5° 46	685.67
100	714.50	714.57	714.62	714.66	714.68	714.79	714.82	714.82	714.90	714.55	715.10	715.24	715.43	715.62	715.80	715.55	716.17	716.33	716.45	716.67	716.76	716.80	716.88	116.54	716.92	716.63	716.60	716.34	716.10	715.62	715.42	715.03	714.65	714.21
200	708.19	708.28	708.39	708.52	708.63	708.72	708.77	708.78	708.84	708.88	708.94	709.02	709.15	709.31	709.45	709.56	709.69	709.78	709.84	109.61	109.96	709.99	71C.C4	710.12	710.19	710.24	710.28	710.34	710.44	710.50	710.53	710.58	710.62	710.64
LATE	1 0		22862	30162	30262	30562	99	~	30862	30962	31262	31362	31462	31562	31662	31962	32062	32162	32262	23	26	32762	32862	32962	33062	4C262	46362	40462	40562	40662	40562	4 1062	41162	41262



200	100	CJI
710.66	713.79	687.9C
710.66	713.33	684.C6
710.69	712.91	688.43
710.72	712.5C	691.01
710.75	712.12	694.25
710.75	711.79	694.61
710.75	711.44	693.CC
710.70	711.C7	683.69
710.61	710.51	673.68
710.49	705.52	672.2C
710.37	709.26	665.33
710.29	708.68	671.24
710.19	708.11	669.96
710.14	707.58	675.49
71C.1C	706.57	671.2C
710.04	706.34	670.99
709.95	705.63	663.9C
709.81	704.87	654.7C
709.63	7C4.C5	647.23
7C9.4C	703.17	640.63
709.16	702.41	646.2C
708.93	701.74	655.36
708.67	7C1.C8	654.C4
708.39	700.37	649.79
708.08	699.65	650.7C
707.77	698.82	648.59
707.37	697.87	636.34
706.90	696.82	626.52
706.42	695.EC	622.56
705.87	694.66	611.88
705.17	693.2C	576.93
704.59	692.C9	603.96
704.04	691.14	613.36
703.5C	69C.17	611.05
	710.66 710.66 710.69 710.72 710.75 710.75 710.75 710.70 710.61 710.49 710.37 710.29 710.14 710.14 710.14 710.04 709.95 709.81 709.63 709.40 709.95 708.67 708.93 708.08 707.77 707.37 706.90 706.42 705.67 704.59 704.04	710.66 713.75 710.66 713.33 710.69 712.91 710.72 712.50 710.75 711.75 711.77 710.75 711.44 710.70 711.67 710.61 710.51 710.49 705.52 710.37 709.26 710.19 708.11 707.58 710.14 707.58 710.10 706.24 707.58 710.04 706.24 709.95 705.63 709.81 704.67 709.63 704.05 709.40 708.93 709.40 708.93 709.40 708.93 709.65 707.77 708.08 709.65 709.65 709.65 709.65 709.65 709.65 709.65 709.65 709.65

110	593.66	:	663.91	602.2C	19.109	595.17	580.54	574.64	563.00	578.18	÷	19.175	563.08	4.0	539.15	536.77	ů	536.5E	557.35	-	573,75	579.48		576.17	580.62	586.C1	0	.2	550.15	588.10	577.85	571.24	573.16	577.16
100	655.05	68.736	686.81	665.74	05.439	663.65	682.51	681.27	675.88	676.68	44.779	676.15	05°419	673.51	95.119	670.33	668.66	95.999	665.47	663.58	662.56	661.19	15.559	65E.52	657.18	655.51	654.62	653.36	652.12	650.85	545.45	648.11	646.78	645.45
200	702.89	702.27		701.08	700.46	699.81	655.11	698.41	49.769	656.95	696.25	655.53	47.469	653.90	652.96	692.01	651.09	65C.2C	689.37	688.57	687.86	687.18	686.55	685.92	665.29	69.489	684.12	683.62	683.10	682.54	681.92	681.27	46.035	686.03
DATE	60462	60562	66662	60762	60862	61162	61262	61362	61462	61562	61862	61962	62062	62162	62262	M)	62662	62762	62862	62962	70262	76362	70562	70662	C.	71062	71162	71262	71362	71662	71762	71862	71562	72062



	_	01	~	_									_																		w	2		
2	7		4.6	3.67	5.00	7.	1.9	1.36	3.6	596.38	3.21	8.3	0.91	:	2.32	5.29	1.50	6.76	6.7	0.0	2.86	8.64	5.5	9.00	3.74	2.57	5.25	3.49	2.32	9.18	2.4	9.1	9.e	ċ
۵	57	57	5.7	5.7	58	59	5.9	59	55	59	59	58	59	5	5.5	59	9	99	9	6.1	6	60	6.1	6	19	6.1	9	9	9 .	9	9	5.5	9	9
٥	644.19	.81	77	=	15.	.76	. 60	.37	. 16	.56	.68			.72	. 40	+23	50.	65.	. 95	. 58	. 58	15.	. 02	617.13	.26		4.46		65.	. 73	C.E1	* S #	5.07	
=	641	642	64	97	638	637	636	63	631	62.0	631	630	629	627	626	62	621	622	621	620	619	919	618	61	616	615	612	6.13	613	61	610	C	603	Ü
0	2 th C	.73	90.	74.	98	.29	12	18	.63	2	.55	85	-	83	.31	.78	.29	. B3	•36	68.	.43	<b>76</b> *	147	95.	.43	88	.28	99.	.01	.38			• #3	
2 C	675.40	678	678	£17	676	676	675	675	674	473	673	672	672	671	671	670	670	699	693	668	668	667	667	666	999	665	665	664	79	63	662	662	661	660
<b></b>	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	42	62	62	62	62	62	62	62	62	862	62	62	62	62	62	9	62
CAT	72362	724	725	726	727	730	731	801	802	8C3	8C6	607	808	803	8 1C	813	£ 1#	815	8 16	817	820	821	822	823	854	827	828	829	830	M	C	C	905	C



113	662.63	663.99	6C3.34	663.99	605.64	£6.7.63	50.736	601.09	601.65	591.78	582.51	588.22	578.46	574.12	578.19	571.55	578.73	578.52	582.41	586.59	586.09	587.18	588.14	586.47	586.47	589.69	589.35	587.68	581.15	573.29	268.60	558.06	576.68	570.86
100	667.37	906.50		69.439	603.82	92.639	662.39	47.13a	01.109	666.31	114.555	598.56	597.64	556.67	595.81	85* 455	594.30	593.68	593.C4	592.35	591.67	591.05	590.42	589.80	589.30	588.93	588.6C	588.36	588.40	5EE.C9	587.65	587.12	566.95	586.71
200	41.099	05.659	658.86	658.24	657.63	657.06	656.45	655.83	655.18	67.459	653.77	653.07	652.30	651.50	650.72	645.93	649.17	648.43	647.73	647.05	646.38	645.71	645.03	644.31	643.58	642.88	642.2C	641.51	040.8C	67.049	639.39	638.64	638.CC	637.30
CATE	91062	91162	51262	91362	51462	91762	91862	91962	92062	92162	55462	92562	52662	52762	92862	100162	100262	100362	100462	100562	100862	100962	101062	101162	101262	101562	101662	101762	101862	101962	102262	102362	24	102562



2	569.C2	15.3	9.5	589.77	597.13		_	15	C		24.4	623.11	7		030.60	6.2	.9	7.2	. e	42.C	m	51.8	5.6		•	-	653.99	651.73	652.10	5.	645.16	m)	645.2C	18°C	
	86.3	eć.	86.C	85.	586.11	586.42	. 98	67.2	587.62	æ	98	E 5 . 4	.:	91.2	52.1		93.	94.5	5	S	96.5	57.3	58.	58.6	Ś	555.65			601.86			0.40	3	C5.	
202	36.5	35.	M	34.	634.31	633.84	33.3	32.9	32.	5	31.7	7.	(T)	0.7	30.4	0.0	59.6	629.29	628.93	628.56	C)	27.9	27.		626.93	626.60	626.30	25.	25.		25.	24.7	24.	2	
	5566	296	C3C	316	110162	1026	105	1076	æ	1096	126	Ξ	111462	156	_	1196	1206	516	1236	¢ ¢	76	40	CV	306	C	240	120562	990	c7 é	121062	116	121262	136	146	

CATE



NTE 1762	2CC 623.80	100	CJ1 645.45
	623.45	604.75	640.14
	623.14	667.37	647.CC
	622.85	45.T38	648.55
	622.51	6CE.43	646.41
	622.18	9CE.55	647.71
	621.86	15.539	49.159
	621.53	610.11	650.56
	621.19	610.65	651.43
	620.83	611.33	£52.10
	620.45	611.89	646.75
	620.14	612.55	657.42
	619.85	613.25	662.23
	619.58	613.92	662.65
	619.35	614-60	98.699
	619.10	615.22	968.00
	618.90	615.64	669.51
	618.72	616.46	671.60
	45.819	617.09	47.574
	618.35	617.76	675.36
	618.16	618.29	20.693
	617.99	618.86	672.98
	617.85	615.45	672.52
	617.75	62C.C8	675.24
	617.62	62C.78	675.53
	617.51	621.52	677.58
	44.719	622.30	675.55
	617.37	623.CO	11.679
	617.31	623.81	682.85
	617.30	624.65	683.73
	617.25	625.43	678.58
	617.24	626.25	682.85
	617.22	27	683.15
	7.1	627.84	662.C1

1 0	0	20	_
32663	5		0
32763	623.29		£ 4.
32863	623.8C	W)	662,99
32563	624.35	662.28	692.52
40163	624.96	663.03	685.86
40263	625.5C	663.73	685.53
MC363	626.08	664.54	690.51
#C1163	626.71	665.35	697.12
40563	627.40	666.13	762.43
40863	628.18	666.56	706.03
£963#	629.01	667.71	706.03
41C63	629.85	668.47	704.35
41163	630.72	669.25	7C8.45
40	-:	676.16	711.38
9	2	67C.EE	10.
41763	633.10	671.61	710.25
41863	m	672.24	
41963	634.43	672.54	711.68
42263	5 ° C	673.57	711.01
42363	635.75	674.2C	714.98
42463	9	674.65	17.7
42563	637.10	475.54	
42663	47.753	676.25	17,1
42563	638.36	676.88	715.11
43063	639.00	677.52	217.70
50163	639.66	678.2C	719.67
50263	640.38	678.89	721.09
56362	641.11	675.42	718.08
C	641.81	68C.3C	713.77
50763	642.47	68C.54	712.55
£ 0 4 0 5	643.19	661.69	718.54
£9535	C43.93	662.43	721.57
	644.60	663.21	
51363	645.39		723.C1



11.3	719.84	724.34	722.64	724.81	2	724.C4	722.84	721.38	720.53	718.25	217.95	722.50	726.56		726.45	725.53	726.87	722.41	716.49	718.38	723,36	721.43	722.C3	716.21	718.90	719.84	72C.78	718.85	716.32	716.42	716.32	708.80	706.03	766.88
100	684.76	685.52	666.29	687.06	467.74	84.339	665.19	689.88	650.62	651.23	691.79	652.35	652.56	45.526	654.11	654.65	655.16	695.63	656.11	656.56	697.07	657.53	658.00	058.4C	658.75	655.20	45.57	699.93	700.30	100.66	200.007	701.26	701.50	701.75
200	646.07	646.73	647.36	648.02	99.849	645.29	46.545	650.61	651.26	651.89	652.52	653,16	653.78	654.38	654.98	655.56	656.13	656.70	£57.2C	657.71	658.26	658.80	659,39	659.96	46.033	661.10	661.69	662.29	662.87	663.45	664.03	664.55	9	665.58
CATE	51463	51563	51663	51763	~	(4	52263	52363	52463	52763	52863	52563	53163	60363	60463	60563	60663	60763	61063	61163	61263	61363	61463	61563	61763	61863	61963	62063	62163	62463	62563	62663		62863



173	701.35	7CE.54	713.36	716.45	710.66	714.05	712.12	35 35	267.72	703.28	762.12	699.72	0.55.90	653.85	688.74	487.84	690.68	11.133	689.38	696.71	696.42	695.42	694.87	657.63	702.55	7C7.C6	703.18	7C4.18	768.39	710.27	711.13	714.95	718,55	715.32
100	701.57	7€2.2€	702.65	703.05	762.34	703.62	7C3.EE	704.05	704.30	764.51	754.72	764.57	705.17	705.38	705.54	705.82	7C6.C6	766.26	7C6.48	756.67	706.51	707.12	767.32	707.52	7.67.81	7CE.12	706.41	7CE.74	709.05	705.40	765.73	710.10	710.48	710.82
300	666.05	666.56	60.733	667.64	668.13	6.88.EC	44.233	£7C.C5	670.70	671.34	671.56	£72.¢0	673.19	673.76	674.29	674.EC	675.32	675.83	676.33	676.85	677.4C	677.53	678.46	£75.01	679.62	680.29	6EC.56	661.69	682,35	663.05	683.76	e84.43	685.CE	665.73
CATE	70163	70263	76363	70=63	2002	10543	71062	71163	71263	71563	71663	71763	71863	71563	72263	72363	4	72563	72663	72563	73063	73163	EC163	EC263	8C563	£0993	£6743	FC863	£0563	£1263	£1263	E146?	£1562	51663



100	716.61	~	5		723.14	724.17	719.85	725.07	726.4C	729.32	732.02	732.52	737.98	~1	732.52	737.43	7 u.C. 3 u		74C.13	4	746.13	7.8	743.22	743.6C	74C.42	745.56	743.65	736.55			736.33	15.725	25.445	745.06
160	711.18	11.5	Ξ	12.1	77.	712.75	712.53	713.12	713.32			:	-			0.5	715.34				716.25	16.1	716.73		717.17	.:		ς.	716.16	_	716.44	~	716.64	715.CM
200	686.34		687.43	45.735	9	689.05	689.53	40.029	65C.52	691.02	651.53	S	CP	653.CB	693.52	663.99	694.45	25.459	655.33	695.78	656.25	656.68	657.13	657.59	658.03	658.53	659.02	455.47	45.553	700.36	700.82	761.31	-	702.28
	E1563	64	16	E2263	£2363	E2463	£2763	£2863	E2563	P3C63	50363	5C463	90563	50905	£9535	51063	51163	51263	51363	51663	51763	51863	91963	52063	52363	52463	52563	55663	52763	53063	100163	100263	100:63	100463



.25 743.	715.44 743.9C	5.64 735.	.81 74C.	55*5	5.2C 741.E	. 42	20.72 748.4	. 53	21.33 750.6	21.58 752.	1.75 747.2	21.59 746.4	22.25 751.8	22.54 755.6	22,51	23.35 760.5	11 755.1	155.2	153.7	53 749	24.85 744	15 745	150	153	11 75	.127 231.	26.74 74	.047 92	7 42.72	7.54 736	-	
2.7	703.25	703.69	764.14	704.59	705.04	705.52	765.97	706.42	706.86	767.27	707.66	708.05	708.45	708.85	709.27	709.73	710.14		716.54	711.31	711.65	711.97	712.33	712.68	3	3.				714.52		
2600	100863	500	010		101463	101563	101663	101763	0.18	102163	102263	102363	CV.	102563	102863	102963	103063	40	110163	110463	110663	110763	110863	111163	111263	111363	111463	111563	111863	0	112063	

10.3

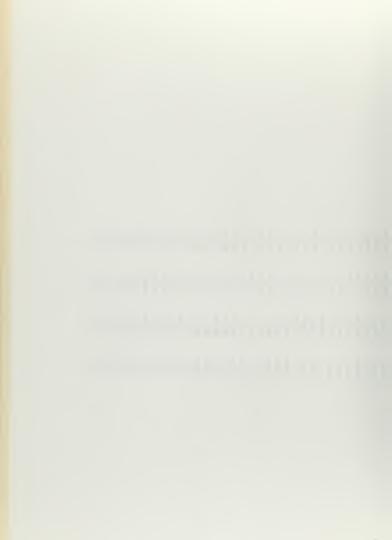
100

200

CATE



163	743.52	741.00	750.52	151.51	751.82	755.51	763.86	76C.25	159.08	759.25	757.21	757.43	760.17	761.64	766.38	767.21	763.86	762.CB	758.30	756.86	760.21	762.95	759.90	766.0€	767.68	769.51	1711.73	774.46	776.55	774.33	773.12	274.45	774.00	776.13
100	728.54	728.78	729.18	725.56	725.56	730.41	730.57	731.54	732,11	732.71	733.32	733.96	734.67	735.41	736.17	736.96	737.7C	738.42	739.04	735.65	746.31	740.96	741.53	742.12	742.76	743.42	744.CS	744.69	745.35	745.54	746.49	747.C4	747.59	31.347
200	715.59	715.91	716.26	716.59	716.92	717.25	717.64	718.03	718.41	718.84	719.25	719.67	720.11	720.62	721.11	721.61	722.09	722.54	722.97	723,39	723.81	724.24	724.67	725.12	725.59	726.C8	726.55	727.04	727.54	728.02	728.48	728.93	725.35	729.65
CATE	112663	112763	112963	120263	120363	120463	120563	120663	120963	121063	121163	121263	121363	121663	121763	121863	121963	122063	122343	122463	122663	122763	123063	10264	10364	10664	10764	10864	10564	11064	11364	11464	11564	11664



103	175.65	773.C3	776-44	781.31	782.86	783.04	785.34	787.78	782.60	783.44	785.34	764.72	783.30	783.04	766.41	751.59	788.71	792.16	754.82	794.42	794.5¢	796.15	795.40	794.91	55-962	757.12	196.59	799.36	197.04	8C0.14	802.75	805.72	8C4.70	803.77
100	748.78	745.32	749.86	750.43	751.06	751.64	752.23	752.61	753.32	753.82	754.30	754.75	755.29	755.75	756.21	756.72	757.21	27.757	758.29	758.86	755.37	755.50	760.45	760.54	761.47	762.C7	762.66	763.33	163.91	764.53	765.12	765.73	766.33	766.53
200	730.30	130.74	71.157	731.59	731.99	732.38	32.	733.19	733.56	733.92	734.30	734.67	735.04	735.40	735.78	736.16	736.52	736.88	737.27	737-67	738.05	738.44	738.81	739.19	739.61	740.03	740.42	740.81	741.18	741.56	741.98	742.38	742.79	743.19
DATE	11764	12064	12164	12264	12364	12464	12764	12864	12964	13064	13164	20364	20464	20564	20664	20764	21064	21164	21264	21364	21464	21764	21864	21964	22064	22464	22564	22664	22764	22864	30264	36364	30464	30564



CATE	2 C C	100	ILG
30664	743.62	767.60	£0.608
30964	744.03	768.26	8C7.18
31064	744.47	768.54	809.39
31164	744.93	769.66	813.87
31264	745.4C	770.38	814.22
31364	745.89	771.06	816.22
31664	746.38	771.71	816.48
31764	746.86	772.39	818.16
31864	747.32	773.C7	820.25
31964	747.79	773.79	819.36
32064	748.23	774.47	814.93
32364	748.67	775.CS	813.6C
32464	749.09	775.65	811.43
32564	749.55	776.19	813.16
32664	75C.C4	776.74	815.91
33064	750.53	777.34	815.29
33164	75C.98	777.92	813.29



To set up the Trendex model enter the date in the first column.

Column two is the value of the Index at the close of business of the corresponding month. Columns three and five are the values of the Index 14 months ago and 11 months ago respectively. Columns four and six are the percentage change in the Index over 14 month and 11 month periods. The total of columns four and six are entered in column 7. Column 18 is a 10 month weighted moving total of column 7. This is simplified by recording in column 8 the current combined percentage changes (column 7) by 10. Last month's combined change multiplied by 9 is recorded in column 8. The change before that is multiplied by 8 and entered in column 10, and so on. The sum of all 10 of these figures (columns 8 through 17) is divided by 10 to produce the 10 month weighted moving average (column 18).

A more precise notation for computing columns 9 through 17 is: Let  $x_{1,j}$  = the element of the matrix formed by columns 9 through 17, where i = 10,11,12,...,n; n = the number of months of data used; and j = 9,10,11,...,17. It follows that:

$$x_{i,j} = (x_{i,7} - x_{i-2,7})(10 - 2)$$
  $i - 2 > 0$   
 $x_{i,j} = 0$   $i - 2 < 0$ 

where  $\mathcal{L}$  = 1,2,3,...,9; the number of months before the current value. The first nine values of column 7, therefore, have been suppressed in the Trendex models.

```
PROGRAM TRENCEX
OIMENSION DIJIA(900),DJIC(900),DJIO(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900),DJIB(900)
```



	18	57.	8.2.	110.	150.	192.	206.	215.	233.	244.	247.	243.	241.	249.	251.	243.	243.	235.	224.	216.	223.	232.	226.	210.	158.	187.	166.	145.	120.	106.	92.	85.
	11	-4.6	-16.1	-14.9	-11.0	-5.5	-2.6	15.0	15.5	17.8	34.5	29.6	33.3	51.2	59.6	36.9	41.6	48.4	48.1	43.4	38.4	6.04	52.2	48.3	38.6	43.4	4 C • 5	29.1	34.3	48.6	20.0	36.2
	2	-32.3	-29.8	-21.5	-11.0	-5.2	30.0	30.9	35.7	68.9	59.2	66.7	102.3	-	77.9	83.2	1.96	96.2	86.8	16.9	81.7	104.4	96.5	17.1	86.7	81.1	58.2	68.6	97.3	100.0	72.5	52.8
	15	-44.8	-32.9	-16.5	-7.8	45.1	46.4	53.5	103.4	88.8	100.0	153.5	178.8	116.8	124.7	145.1	144.3	130.2	115.3	122.6	156.6	144.8	115.7	130.1	121.6	87.2	102.9	145.9	150.0	108.7	79.2	83.6
ш	7.	-43.8	-22.0	-10.4	60.1	61.9	71.3	137.9	118.5	133,4	204.6	238.4	155.7	166.3	193.5	192.4	173.6	153.7	163.4	208.9	193.1	154.2	173.4	162.2	116.3	137.3	194.5	200.0	145.0	105.6	111.4	105.3
GUICE	13	-27.5	-12.9	15.1	77.3	85.2	172.3	148.1	166.7	255.8	298.0	194.7	207.5	241.8	240.5	1.715	192.2	204.3	261.1	241.3	192.8	216.8	202.7	145.4	171.6	243.1	250.0	181.2	132.C	135.3	131.6	16.9
BUYING	12	-15.5	90.1	95.8	107.0	206.8	1.771	200.1	306.9	357.6	233.6	249.5	290.2	288.6	260.5	230.6	245.2	313.3	289.6	231.3	260.1	243.3	174.5	205.9	291.8	300.0	217.4	158.4	167.1	158.0	92.3	73.7
BUY	=	105.2	108.3	124.8	241.3	207.3	233.4	358.1	417.2	272.5	291.1	338.5	336.7	303.9	0.692	2.68.0	365.5	337.9	6*697	303.5	283.8	203.6	240.2	4.045	350.0	253.7	6.481	195.0	184.3	107.6	65.9	37.9
TERM	2	123.7	142.7	8.575	236.9	8.993	109.2	476.8	311.5	332.7	386.9	384.8	347.3	307.5	326.9	17.71	386.1	308.4	346.9	324.4	232.7	274.5	0.688	0.004	6.682	211.3	8.223	210.6	23.0	98.2	43.3	115.3
9	•	5.09	310.2	266.5	300.1	4.091	536.4 1	350.4 4	374.2	435.3	32.9	390.7	345.9	367.8	6.691	1 4.484	347.0	390.2	364.9	261.7	308.8 2	37.6	50.0	256.2	237.7	250.7	236.9 2	38.4	10.5	1.84	129.7	109.8
LGNG	æ	344.7	296.2	333.5 2	511.5 3	0.965	389.3 5	415.8 3	483.6 3	481.0 4	434.1 4	384.3 3	408.6 3	522.1 3	482.7 4	385.5 4	433.6 3	405.5 3	290.8 3	343.2 2	486.3 3	500.0	362.4 4	264.1 3	278.5 2	263.3 2	53.8 2	22.8	54.1	14.2	122.0 1	157.3
VERY	~	34.47 3	29.62	33,35 3	51.15 5	5 09.65	38.93 3	41.58 4	48.36 4	48.10 4	43.41 4	38.43 3	4 0.86 4	52.21 5	48.27 4	38.55 3	43.36 4	40.55 4	29.C8 2	34,32 3	48.63 4	50.00	36.24 3	26.41 2	27.85 2	26.33 2	15.38 1	12.28 1	5.41	14.42 1	12.20	15.73 1
×	9	16.60 31	14.87 29	18,31 33	27.30 51	33.45 59	18.87 36	17.21 41	18.83 48	19.43 48	17.47 4	13.73 36	16.66 4 (	22,31 52	22.32 48	15.68 38	15.98 4	19.39 4(	15.87 2	18,90 34	19.39 48	20.51 50	15.27 34	10.99 24	8.20 2	7.40 24	1 06.4	3.99 12	3.20	8.37 1	6.36 12	3.59 1
TRENDEX	vn	173.06 1	177.10 1	174.16 1	168.36 2	167.42 3	175.92	178.66 1	182.51	189.54 1	191,55 1	200.13 1	201.75 1	203.44 2	206.05	214.33 1	223.42 1	205.11	205.40	216.87	226.36 1	225.01 2	227.6C 1	235.41	248.83	252.05	247.94	255.13	249.65	242.64	257.86	270.25
	2	17.9 1	14.7	15.0 1	23.8 1	26.2 1	20.1 1	24.4	29.5 1	28.7 1	25.9 1	24.7 2	24.2 2	29.92	25.9 2	22.9 2	27.4 2	21.2 2	13.2 2	15.4 2	29.2 2	29.5 2	21.0 2	15.4 2	19.7 2	18.9 2	10.5 2	8.3 2	2.2 2	6.0 2	5.8 2	12.1 2
	m	171.20	177.30	179.12	173.06	177.10	174.16	168.36	167.42	175.92	178.66	182.51	189.54	191.55	200.13	201.79	203.44	206.05	214.33	223.42	209.11	209.40	216.87	226.36	225.01	227.60	235.41	248.83	252.05	247.94	259.13	249.65
	8	1 67.102	203.44 1	206.05 1	214.33 1	223.42 1	209.11 1	209.40 1	216.87 1	226.36 1	225.01 1	227.60 1	235.41	248.83 1	252.05 2	247.94 2	259.13 2	249.65 2	242.64 2	257.86 2	270.25 2	271.16 2	262.35	261.27	269.23	270.69	260.08	269.46	257.63	262.94	274.26	279.96
	-	13150 2	22850 2	33150 2	42950 2	53150 2	63050 2	73150 2	83150 2	92950 2	103150 2	113050 2	123050 2	13151 2	22851 2	33151 2	43051 2	53151 2	62951 2	73151 2	83151 2	92851 2	103151 2	113051 2	123151 2	13152 2	22952 2	33152 2	43052 2	52952 2	63052 2	73152 2



18	BC.	Ξ.	5.5	56.	64.	75.	73.	72.	70.	57.	, p	42.	17.	2.	-6.	-6-	-6-	ř	14.3	19.	. 8	83	118.	171.	203.	235.	272.	218.	357.	387.	4C8.	410.	416.	=======================================
11	26.4	27.9	26.3	15.4	12.3	3.5	14.4	12.2	15.7	14.8	8.1	2.7	9.5	16.1	22.3	=	12.0	10.1	M3 *	7	4.9	-15.6	-7.6	-2.3	₹.	~	6.2	6.2	15.2	29.6	39.1	42.5	66.3	52.4
16	55.7	52.7	30.8	2406	10.8	28.8	24.4	31.5	29.6	16.2	5.3	19.1	38.2	44.6	22.2	24.0	20.3	•	7	1.6	-31.1	-15.2	9.4-	٠,	2.5	12.3	12.3	30.4	59.2	78.2	85.0	32.5	7.40	123.2
15	75.0	46.1	36.8	16.2	43.4	36.6	47.2	7.77	24.3	8.0	28.6	57.3	67.0	33.2	36.0	30.4	1.0	2	14.6	-46.7	-22.8	6.9-	:	3.8	18.5	18.5	45.6	86.8	117.3	127.5	198.8	157.1	184.8	J.961
2	61.5	1.64	21.6	57.7	8.84	65.9	59.1	32.4	10.7	38.1	76.4	89.3	44.3	48.0	40.5	1.3	2	19.4	-62.3	-30.5	-9.1	1.5	5.1	24.6	24.6	8.09	118.5	156.4	170.0	1.592	4.602	246.3	261.3	336.7
13	4.1.4	27.1	72.1	61.C	78.7	73.9	4C.5	13.3	9.24	95.5	9.111	55.4	0°09	50.7	1.6	m •	24.3	-77.8	-38.1	-11.4	1.8	7 - 9	30.8	30.8	0.97	148.1	195.5	212.6	331.4	261.8	6.708	326.6	450.9	424.6
2	32.5	66.5	73.2	4.46	88.7	9.84	16.0	57.2	9.41	133.9	66.5	72.0	8.09	1.9	۳.	29.1	-93.4	- 45.7	-13.7		7.6	36.9	36.9	91.3	1.771		255.1	397.6	314.1	369.5	191.9	305.C 3	1 5.60	9.405
=	6.001	85.4	10.1	103.5	56.7	18.7	1.99	133.7	56.3	9.77	84°C	6.07	2.3	77 ° -	34 ° C	-109.0	-53.3	- 16.0		8.9	43.1	43.1	106.5	207.3	273.7		463.9 2	366.5	431.1 3	457.3 3	569.2	594.5	588.7 5	576.3 5
2	91.6	125.9	18.3	1.49	21.4	76.2	152.8	9.87	88.7	0.96	1.18	5.6	7.	38.8	-124.5		-18.3 -	3.0	10.2	49.2	1,9.3	121.7	236.9 1	312.9 2	340.1 2		418.8 4	192.7	522.6 4	673.4 4	679.4 5	672.8 5	5 9.85	5 4.7.45
•	9.141	33.1	72.8	24.0	85.7	6.17	200.9	1 2.66	0.80	91.2	5.9	5	43.7	-140.1	-68.5 -1	-20.5 -	3,3	11.5	55.4	55.4	136.9	266.5 1	352.0 2	382.6 3	96.5	471.2 5	554.3 4	87.9	157.5	64.3 6	56.9 6	9 6.04	15.8 6	570.4 5
au	_	80.9	26.7	95.3	0.16	223.2 1	110.8 2	120.0	161.3	3.2	5	48.5	-155.7	-76.1 -1	-22.8 -	3.7 -	12.7	61.5	9.19	152.1		351.1 2	425.1 3	562.7 3	523.5 5	_	653.2 5	841.7 5	849.2 7	341.0 7	823.3 7	584.2 7	9 6" 77.	673.7 6
4	1 84.18	8.09	2.67	9.53	1 01.6	22.32	11.08	12.00 1	10.13	• 32	05	4.85	5.57	- 19.7-	2.28 -	.37	1.27	6.15	91.9	15.21	29.61 2	39.11 3	42.51 4	66.27 6	52,35 5	61.59 6	65.32 6	84.17 8	84.92 8	84.1C 8	82.33 8	68.42 6	7 4.49 7	67.37 6
٠,	_	3.15	3.05	5.14	7.84 1	11.42 2	5.50 1	8.62 1	4.49 1	72	-4.18	. 12	-71.17-1	-1.93 -	-2.56 -	-3.61	-3.06	2.86	5.25	10.47 1	17.28 2	22.C8 3	21.12 4	38.49 6	27.18 5	30.69 6	25.15 6	37.69 8	38,31 8	38.80 8	35.70 8	28.30 6	29.97 7	27.38 6
w)	271.16	262.35	261.27	265.23	270.65	26€.0€	265.46	257.63	262.94	274.26	279.96	275.04	270.61	269.23	283.06	291.90	285.77	284.27	279.84	274.75	272.2€	268.26	275.38	251.22	264.04	275.81	281.37	280.90	292.35	294.54	303.51	319.33	327.45	333.53
a	13.4	6.4	#	7. 7	11.3	10.9	5.6	3.4	5.6	1.0	1.4	1.1	4.8-	-5.7	ĸ,	0 * 1	4 . 3	3,3	6.	10.7	12.3	17.0	21.4	27.8	25.2	30.9	40.2	46.5	9.94	45.3	9.94	40.1	44.5	0.04
м	242.64	257.86	270.25	27 1 - 16	262.35	261.27	269.23	270.69	260.08	269.46	257.63	262.94	274.26	279.96	275.04	270.61	269.23	283.06	291.90	289.77	284.27	279.84	274.75	272.28	268.26	275.38	251.22	264.04	275.81	281.37	280.90	292,39	294.54	303.51
2	275.04	270.61	269.23	283.06	291.90	289.77	284.27	279.84	274.75	272.28	268.26	275.38	251.22	264.04	275.81	281.37	280.90	292,39	294.54	303.51	319,33	327.49	333.53	347.92	335,80	360.46	352.14	386.77	404.39	408.83	411.87	409.70	425.65	424.86
-		93052	103152	112852	123152	13053	22753	33153	43053	52953	63053	73153	83153	93053	103053	113053	123153	12954	22654	33154	#50£#	52854	63054	73054	83154	93054	102954	113054	123154	13155	22855	33155	42955	53155



36		416.	_	355°	377.	355	348.	318	253.	279.	268.	236.	208.	157.	175.	144.	13.	84.	77.	54.	24.	7.	5.	÷	-8	ř	i	-17.	-34.	-45.	-57.	-58	-10.	F
11	61.6	65.3	84.2	64.9	84.1	82.3	6E.4	74.5	67.4	1.1	81.0	70.3	9.99	53.1	53.6	58.2	36.0	37.6	45.4	46.8	22.4	21.6	32.5	18.8	6.5	-8	-1.5	15.9	-1.8	-14.1	-7:1	5.7	٥.	-5.3
91	130.6	168.3	169.8	168.2	164.7	136.8	149.0	134.7	142.2	162.0	140.5	133.3	106.1	107.1	116.3	72.C	75.3	90.8	93.6	8 * 44	43.1	9.50	37.4	13.0	3.6	-3.8	31.8	-3.6	-28.2	-14.3	<u>-</u> -	-	-10.6	15.5
15		254.8	252.3	247.0	205.3	223.5	202.1	213.3	242.9	210.8	6.991	159.2	160.7	174.5	108.0	112.9	136.3	140.4	67.3	1.49	4.76	56.4	19.5	5.4	-5.6	47.7	-5.3	-42.3	-21.4 -	17.1	-	-15.9	23.2 -	•
2	339.7	336.4	329.3	273.7	297.9	269.5	284.4	323.9	281.0	266.5	212.3	214.3	232.6	144.0	150.6	181.7	187.2	1.68	86.2	129.9	75.3	26.0	1.1	-7.5	9.59	-7.1	-56.3	-28.6	22.8	-	-21.2	31.0	80	-67.1
23	120.5	11.6	342.1	372.4	336.8	355.4	6.404	51.3	333.1	265.3	267.9	8*062	3.381	186.2	1227.1	234.0	112.1	107.8	162.4	94.1	32.5	8.9	4.6-	79.5	-8.9	-70.4	-35.7	28.5	7.	.26.4	38.7	1.0	-83.9	- 94.3
12		10.5	6.944	404.2	426.5	185.9	421.5	359.8	318.4	321.4	348.9	216.0 ;	. 6*522	272.5	280.7	134.5	129.3	194.9	112.9	39.0	10.7	-11.3	95.4	-10.7	-64.5	-42.8 -	34.2 -	.2	-31.7	46.5 -	1.2	-1001-	-113.2 -	- 91.6-
-		521.4 4	471.6	1 9.791	566.8 1	1 9.154	1 4.994	371.5	375.0	4.07.1	252.C 3	263.5	317.9 2	327.5	156.9	150.9	227.3	131.7	45.5	12.5	-13.1	. 1.11	-12.4	- 9.85-	- 50.0	39.9 -	•5	-37.0	54.2	7.	-117.5	-132.0 -1	-106.9 -1	-127.9
2		538.9	568.7 4	647.8 4	562.0	533.0 4	424.5 4	428.6	165.3	288.0 4	301.2	363.4 2	374.3 3	179.4 3	172.4	259.8	150.5 2	52.0 1	14.3	-15.0	127.3 -	-14.2	- 112.7 -	1.73-	45.7 -	•5	-42.3	62.0 -	1.6	-134.3	- 150.9 -1	-122.2 -1	-146.2 -1	-63.7 -1
•		639.8 5	128.8	632.3 6	9.669	477.6 5	482.1 4	523.4 4	324.0 4	338.8 2	408.8 3	421.1 3	201.8 3	154.0	292.3 1	169.3 2	58.5	16.1	-16.9	143.2 -	-16.0 1	-126.8 -	-64.3 -1	- 4.13	۴,	9.74-	- 7.69	1.8	-151.1	-169.8 -1	-137.4 -1	-164.5 -1	-11.6 -1	-173.4 -
æ		909.8	102.6 7	566.3 6	530.7 5	535.7 4	581.6 4	360.0 5	376.5 3	454.2 3	4 6.7.9 4	224.2 4	215.5 2	324.8	188.1 2	65.0 1	17.9	-18.8	- 1.651	-17.8 1	-14C.9 -	-11.4 -1	- 1.75	.3	-52.9	- 5.77	2.0	-167.9	-188.6 -1	-152.7 -1	-182.8 -1	- 19.6 -1	-192.7 -	-163.9 -1
-		80.98	70.26 7	66.63 6	53.07 5	53.57 5	58.16 5	36.00	37.65 3	45.42 4	4 67.94	22.42 2	21.55 2	32.48 3	18.81	6.5c	1.79	-1.88 -	15.51	- 1.78 -		- 41.1-	5.71	• 03	5.29 -	7.75	.20							
v		38.73 8	29.88 7	32.51 6	17.61 5	19.50 5	19.46 5	14.29 3	18.05 3	20.24 4	21.48 4	5.83.2	5.78 2	10.60 3	7.59 1	14.48	71	-3.2c -	6.10 1	93 -	-9.22-14.09	- 00°B-	3.49	1.91	-2.80 -	1.29	1.91	-4.51-16.79	-6.71-18.86	-9.93-15.27	-9.07-18.28	-3.14 -7.96	-7.35-19.27	-9.63-16.39
wı		335.80	360.46	352.14	386.77	56.404	406.83	411.87	JL * 50%	425.65	424.86	451.38	465.85	468.18	466.62	454.87	483.26	186.40	476.74	483.65	511.79	516.12	477.68	492.78	517.81	502.04	475.25	479.85	472.78	14.564	479.16	464.62	474.81	494.36
а		42.2	40.4	34.1	35.5	34.1	38.7	21.7	19.61	25.2	25.3	16.6	15.8 4	21.9	11.2	2.0	2.5	1.3	9.8	8.	6-4-	6.	2.2	-1.9	-2.5	6.5	-1.7	-11.9	-12.2	-5.3	-9.2	8.4-	-11.9	8.9-
N)	319.33	327.49	333,53	347.92	135.80	360.46	352.14	386.77	404.39	408.83	411.87	409.70	425.65	424.86	451.38	465.85	468.18	466.62	454.87	483.26	488.40	470.74	483.65	511.79	516.12	477.68	492.78	517.81	502.04	475.25	479.85	472.78	14.664	479.16
7	451,38	465.85	468.18	466.62	454.87	483.26	488.40	470.74	483.65	511.79	516.12	477.68	492.78	517.81	502.04	475.25	479.85	472.78	24.664	479.16	464.62	474.81	494.36	502.18	503.29	508.52	484.35	456.30	40.144	449.87	435.69	450.02	439.92	446.76
-	93029	72955	83155	93055	103155	113055	123055	13156	22956	32956	43056	52956	52956	73156	83156	92856	103156	113056	123156	13157	22857	32957	43057	52950	62857	73157	83057	93057	103157	112957	123157	13158	22858	33158

8	-11.		-54.	-25	,	4 4	940	150.	2€30	254°	254.	332	363.	377.	355.	388.	361.	337.	308	285.	24C.	197.	154.	107.	74.	48	20.	7	-29.	-54.	-68.	-66.	-56.
17	7.7	-16.8	-18.9	-15.3	-18.3	-8.C	-19.3	-16.4	-11:1	-10.6	-9.2	O . 4	12.5	25.2	32.9	50.1	62.0	0.76	73.6	70.2	76.6	78.7	69.1	78.5	59.0	41.9	43.1	36.8	35.4	14.9	10.9	83 * B	-6.8
92	4. 22	-37.7	-30.5	-36.6	-15.9	-38.5	-32.8	-22.2	-21.2	-18.5	8.0	25.1	50.5	65.8	100.2	124.1	134.1	147.2	140.4	153.2	157.5	138.3	157.1	118.0	83.7	86.2	73.7	78.9	29.7	21.9	7.5	-13.7	-1.2
15	-50.4		-54.8	-23.9	-57.8	-49.2	-33.3	-31.8	-27.7	12.0	37.6	75.7	7.86	150.4	186.1	201.1	220.8	210.6	229.8	236.2	207.4	235.6	176.9	125.6	129.3	110.5	118.3	9.44	32.8	11.3	-20.5	-1.8	-7.1
ž	-75.5	-01.1	-31.8	-77.1	-65.6	4044-	-42.5	-37.0	16.0	50.1	101.0	131.6	2007	248.1	268.2	294.4	280.9	306.4	314.9	276.6	314.2	235.9	167.5	172.5	147.4	157.8	59.4	43.7	15.1	-27.3	-2.4	-9.5	-38.6
13	4.97-	-36.6	4.96-	-82 °C	-55.5	-53.1	-46.2	2C.C	62.6	126.2	164.5	250.6	310.1	335.2	368.C	351.1	383.0	393.7	345.7	392.7	294.9	209.3	215.6	184.2	197.2	74.3	54.7	16.8	-34.2	-3.C	-11.9	-48.2	-18.2
12	1.09.7	-41.6	-98.3	1.99-	-63.7	-55.4	24.1	75.2	151.4	197.4	300.7	372.2	402.3	441.6	421.3	459.6	472.4	414.8	471.3	353.9	251.2	258.7	221.1	236.6	89.1	65.6	22.6	-41.0	-3.6	-14.2	-57.8	-21.8	-145.9
=	- 55.7	,	-77.8	-74.3	-64°T	28.1	87.7	176.7	230.3	350.8	434.2	469.3	515.2	491.5	536.2	551.1	0.484	8*649	4 12.8	293.1	301.8	257.9	276.1	104.0	76.5	26.3	6*24-	-4-2	-16.6	-67.5	-25.5	-170.2	-160.8 -
21	-154.2		-64.9	-73.9	32.1	100.2	201.9	263.2	6.004	456.2	536.4	588.8	561.7	612.7	658.8	553.1	628.3	471.8	335°C	344.9	294.8	315.5	118.9	87.5	30.1	-54.7	8.4-	-19.0	-77.1	-29.1	- 194.5	-183.8 -	
•		- 100.0 -	-83.2	36.1	112.8	227.2	296.1	451.1	558.3	603.4	662.4	631.9	689.3	708.6	622.2	6.907	530.8	376.8	388.0	331.6	355.0	133.7	4.86	33.9	-61.5	-5.4	-21.3	-86.7	-32.7	-218.8	-206.7 -	-157.9 -	-52.5 -140.4
æ		- 100.2 -	1 ° 0 4	125.3	252.4	329.0	501.2	620.3	4.076	736.0	702.1	765.9	787.4	4.169	785.4	589.8	418.7	431.2	368.5	394.4	148.6	109.3	37.6	-68.4	-5.9	-23.7	4.96-	-36.4	-243.2	-229.7 -	-175.5 -	-58.3 -	12.0
-			4.01	12.53	25.24	32.90	50.12	62.C3	47.78	73.60	70.21	76.59	78.74	41.69	78.54	58.58	41.87	43.12	36.85	39.44	14.86	10.53	3.76	-6.84	65	-2.37	-9.64	-3.64				-5.83	1.20
•	-9.22-11.11	-5.97 -9.24		11.47	20.62	20.75	27.95	29.69	35.02	35.08	34.24	34.81 76.59	34.63	27.95	32.69	22.59	16.28	15.99	12.54	14.38	3.17	2.97	61	-6.54	-2.81	-5.CB	-5.44	26	646.60-10.28-24.32	655.16-11.96-22.97	675.36-12.09-17.55	-1.08 -5.83	2.67
ų)	502.18	506.52	484.35	456.30	441.04	445.87	435.69	45C.02	439.92	446.76	455.86	462.70	478.18	502,99	508.63	532.0C	542.22	557.46	583.65	593.96	603.5C	6111.93	623.75	643.79	643.6C	674.8E	652.18	631.6E	946.6C	655.18		622.62	630.12
a	6.1-	-3.3	•2	=	9.4	12.2	22.2	32 .3	32.0	38.5	36.0	41.8	44.	41.2	45.9	36.4	25.6	27.1	23.9	25.1	11.7	8 •0	#	3	2.2	2.7	-4.2	-2.7	-14.0	-11.0	-5.5	-4.7	-1:7
m	464.62	19.494	502.18	503.29	508.52	484.35	456.30	40.144	449.87	435.69	450.02	439.92	94.994	455.86	462.70	478.18	502.99	508.63	532.00	543.22	557.46	583.65	593.96	603.50	611.93	623.75	643.79	643.60	674.88	652.18	631.68	09.949	659.18
2		478.18		508.63	532.00	543.22	557.46	583.65	593.96	603.50	611.93	623.75	643.79	643.60	88* 119	652.18	631.68	09.949	81.659	679.36	622.62	630.12	46.619	601.70	625.50	640.62	616.73	6529	580.14	580.36	597.22	615.89	648.20
-		52958		82958	93058	103158	112858	123158	13059	22759	33159	43059	52959	63029	73159	83159	93059	103059	113059	123159	12960	22960	33060	42960	53160	93060	72960	83160	93060	103160	113060	123060	13161

35	-42.	-13.	9.	3 %	* 0 9	8 H °	113.	135.	147.	168.	181.	173.	163.	147.	115.	65.	10.	-34.	-99-	-105.	-135.	- 14C.	-136.	-124.	-116.	-91.	-50-	-	(n)	66.	122.	160.	183.	207.
11	6	-2.4	-9.6	-3.6	-24.3	-23.0	-17.5	-5.8	1.2	# ° 3	21.1	16.2	21.1	24.6	25.4	36.5	34.5	30.3	41.5	38.8	21.1	19.6	13.2	0.4-	-19.7	-37.7	-31.1	-24.1	-37.0	-36.3	-18.6	-13.4	-8.9	-15.6
2	-4.7	-19.3	-7.3	-48.6	-45.9	-35.1	-11.7	2.4	8.5	42.3	32.4	42.3	1.64	50.9	73.0	0.69	9.09	83.1	77.6	42.1	39.2	26.4	-8.0	-39.3	-75.5	-62.3	-48.1	-74.1	-72.7	-37.2	-26.8	-17.9	-31.1	1.8
15	-28.9	-10.9	-72.9	-68.9	-52.6	-17.5	3.6	12.8	63.4	1.8.7	63.4	73.7	76.3	100.4	103.6	6.06	124.6	116.3	63.2	58.8	39.7	-12.0	-58.0	-113.2	-93°4	-72.2	-1111-	-109.0	-55.8	-40.2	-26.8	-46.7	2.8	55.1
2	-14.5	-97.3	-91.9	-70.2	-23.3	l3 . 8	17.0	84.5	6 % % 9	84.6	98.3	101.8	545.9	138.1	121.3	166.2	155.1	84.2	78.4	52.9	-16.1	-78.7	-150.9	-124.5 -	-96.2	-148.2	-145.44 -	- 4.47-	-53.6	-35.7	-62.2	3.7	73.5	129.4
<u>13</u>	-121.6	-114.8	-87.7	-29.2	0.0	21.3	105.6	81.1	1.501	122.9	127.2	182.4	172.6	151.6	7.702	193.9	105.3	0.8€	1.99	-20.1	4.86-	-188.6	-155.6 -	-120.3 -	-185.2	- 181.7 -	-93.0 -	-67.1	9.44-	-77.8	4.6	91.9	161.7	122.3
12	-137.8 -	-105.3 -	-35.0	7.2	25.5	126.8	97.3	126.9	147.4	152.7	218.9	207.1	181.9	249.3	232.7	126.3	117.6	79.3	-24.1	-118.0	-226.4	-186.8 -	-144.3 -	-222.3 -	-218.1 -	- 9:111-	-80.5	-53.6	-93.3	5.5	110.2	194.1	146.8	165.2
Ξ	-122.8 -	-4C.8 -	8.4	29.8	147.9	113.5	148.0	172.0	178.1	255.4	241.6	212.2	25C.8	271.4	147.4	137.3	\$2.6	-28.1	-137.7	-264.1 -	-217.9 -	-168.4 -	-259.3 -	-254.4 -	-130.2 -	- 63.9 -	-62.5	108.9	4.9	128.6	226.4	171.3	152.8	398.8
2	- 46.6 -	9.6	34.0	0.691	129.7	1.65	90961	203.6	293.8	276.2	242.5	332.4	310.2	168.4	6.95	105.8	-32.1	-157.4	- 301.8 -	-249.0 -	-192.5 -	-296.4 -	-290.8 -	- 148.8 -	- 107.3 -	-71.4	-124.4	7.3	0.741	258.R	1.561	220.3	455.e	387.9
6	10.8	38.3	90.1	0.94	2.061	221.2	229.0	328.3	310.7	272.8	373.9	0.545	5.681	176.5	119.0	-36.1	-1771-	-339.6 -1	-280-1-	-216.5 -2	-333°4 -	-327-1-	-167.4 -	-120.7 -	- 8C.4 -	- 140.0	8.3 -	165.4	291.1	22C-2	8.742	512.7	436.4	362.6
80	42.5	211.3	62.2	211.4 1	245.7	254.5	364.8	345.2	303.2 3	415.5	387.8	210.5	196.1	132.2	-40.1	- 1961-	-377.3 -1	-311,3 -3	-240.6 -2	-3/0.5 -2	-363.5 -3	-186.0	-134.1 -	-89.3 -1	-155.5	9.2 -	183.7	323.5	244.7	275.4	569.7	6.484	402.9	458.2
_	4.25	21.13 2	16.22 1	21,14 2	24.57 2	5.45 2	6.48 3	1, 52 3	30.32 3	4 1.55 W	8.78 3	21.05 2	19.61	3.22	- 4.001 -										5.55 -1	.92	18.37	32,35 3	24.47 2	27.54 2	56.97	n 64°84	40.29	45.82
	6.80	12.45 2	8.51 1	8.76 2	10.90 21	12.68 2	24.10 3	20.82 3	17.87 3	17.16 4	12,80 3	t. 83 2	4.ck 1	4.16.1	-1:-51 -1	96-10.32-19.67	C. 43-3	6.95-3	3.12-2	8.44-3	8.27-3	1-61-11	-6.05-13.41	-3.56 -8.93	-6.23-1	2.58	17.01	29.52 3	18.22 2	14.16 2	27.03 5	25.10 4	16.31 4	15.09 4
S	46.219	1 27.109	625.5C	640.62	616.73	625.99	58C.14 2	58C.36 2	597.22	615.89	648.2C 1	662.08	676.63	678.71	696.72 -	683.96-1	705.37-2C.43-37.73	715.94-16.95-31.13	701.21-13.12-24.C6	703.92-18.44-37.C5	721.66-18.27-36.35	731.14-11.19-18.60	- 50° 169	708.05	. 36.307	665.43	613.36	561.28	597.93	91.509	574.12	589.77	06.9.30	652.1C
2	-2.5 6	8.7 6	7.7 6	12.4 6	13.7 6	12.8 6				24.45	26.0 6	16.2 6	15.0 6		.5	9 406-	-17.3 7	-14.2 7	7 6.01-	- 18.6 7	-18.1 7	T 4.5-	-7.4 6	7 4.6-	-9.3	-1.7 6	1.4	2.8	6.2	13.4 6	29.9	23.4 €		30.7
m	679.36	622.62	630.12	46.619	601.70	625.50	640.62	616.73	6529	580.14	580.36	597.22	615,89	648.20	062.08	676.63	678.71	696.72	683.96	705.37	719.94	701.21	703.92	721.60	731.14	60.469	706.05	706.95	665.33	613.36	5¢1.28	597.93	81.609	574.12
7	662.08 6	676.63 6	678.71 6	696.72 6	683.96 6	705,37 6	719.94 6			721.60 5	731.14 5	60° 1159	708.05 6	706.95	665.33	613,36			609.18	574.12	589.77	649.30	652.10	682.85	662.94	682.52	717.70	726.96	706.88	695.43	729.32	737.79	755.23	750.52
-	22861 6	33061 6	42861 6	53161 6	63061 6							13162 6	22862 7			53162 6		73162	33162 6	92862 5	103162	113062	123162	13163	22863	32963	43063	53163	63063	73163	83163			113063

J.E	22C.	225.	228.	220.	215.
17	• 6	18.4	32.3	24.5	27.5
9	36.7	64.7	48.9	55.1	113.9
15	97.0	73.4	82.6	170.9	145.5
7.	97.9	110.2	227.9	194.0	161.2
13	137.7	284.9	242.4	201.4	225.1
12	341.8	290.9	241.7	274.9	246.6
=	335.4	282.C	320.7	287.7	273.8
20	322.3	366.5	328.8	312.9	319.5
6	412.4	369.8	352.0	359.4	251.8
<b>6</b> 0	410.9	391.1	355.4	324.2	337.9
1 2 3 4 5 6 7 8 9 1C 11 12 13 14 15 16 17 1E	41.09	39,11	2284h 800.1h 652.10 22.7 682.52 17.23 39.94	210.4 13.29 682.85 19.1 711.7C 13.32 32.42 359.4 312.9 287.7 274.9 201.4 194.0 170.9 55.1 24.5 220.	33.79
•	11,73	18,31	17.23	13,32	11.51
w	682.85	46.299	682.52	717.70	726.96
a	29.4	20.8	22.7	19.1	22.3
23	589.77	649.30	652.10	682.85	662.94
2	162.95	7Rb. 35	41.000	113.29	110.63
-	23163	13164	22864	33164 8	1 306h



```
PROCRAM TRENCEX
DIPENSION DJIA(900), DJIC(9C0), DJIO(9CC), IDATE(5CC), DJIB (9CC), DJIC(
DIPENSION DJIA(900), DJIC(9C0), DJIO(9C0), DJIB (9CC), DJIC(
ECOLVALENCE (Y1(1), DJIA(24)), (Y2(1), CJIP(24))

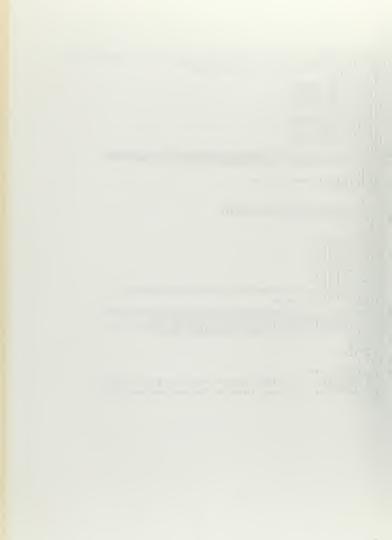
TOT TE | 1786

TOT TE | 1786

TITLE(1) = (8H STANDARD)

ITTLE(1) = (8H STANDARD

I
```



	16	315.	313.	338	355.	373.	366.	351.	351.	355.	347.	362.	385.	413.	420.	423.	432.	417.	425.	431.	467.	478.	408.	314.	229.	156.	.56	51.	17.	-22.	-86.	-131.
	11	36.3	51.1	40.7	53.3	26.0	65.1	46.2	57.8	69.7	₹65	51.9	19.8	75.2	19.0	57.4	9.84	63.1	67.5	57.1	19.1	86.6	7.16	78.7	74.6	80.0	59.2	82.0	85.8	113.6	94.3	15.2
	92	102.3	81.4	106.5	111.9	130.2	92.4	115.6	139.5	118.7	103.7	159.6	150.3	158.0	114.8	97.1	126.1	135.0		158.3	177.2	195.3	157.3	149.1	160.0	118.4	164.0	165.6	227.3	188.7	30.4	-32.4
	5	122.1	159.8	167.9	195.4	138.6	173.4	209.2	178.1	155.6	239.5	225.5	237.0	172.3	145.7	189.2	202.6	171.2	237.4	265.9	293.0	236.0	223.7	240.0	177.6	246.0	248.3	340.9	283.0	45.5	-48.6	-53.2
	2	213.1	223.9	260.5	184.8	231.2	279.0	237.4	207.4	319.3	300.7	315.9	229.7	194.3	252.2	270.1	228.2	316.6	354.5	390.6	314.7	298.3	320.0	236.7	328.0	331.1	454.5	377.4	1.09	8.49-	-70.9	-68.3
	5	279.9	325.6	231°C	289.0	348.7	296.8	259.3	399.1	375.8	394.9	287.1	242.9	315.3	337.6	285.3	395.7	443.1	488.3	393.4	372.9	399.9	295.9	11C.C	413.9	568.1	471.7	15.9	-81.c	-88.6	-82°#	0.99-
2	12	350.7	2.77.2	346.8	418.5	356.1	311.1	478.9	451.0	473.9	344.5	291.4	378.4	405.1	342.3	474.9	531.7	586.0	472.0	447.4	6.624	355.1	492.0	1.964	8.189	266.0	1.19	-97.2	-106.4	-102.5	-79.2	-32.5
2	=	323.4	9.404	488.2	415.5	363.0	558.7	526.1	552.9	402.0	34C.C	4.1.44	472.7	399.4	554.0	620.3	683.6		522.0		414.3	574.0	5.615	195.4	4.099	106.3	-113,3	-124.1	-119.5 -	-92.5 -	-37.9	-16.9
-	01	462.4	6.755	8.474	114.8	638.5	601.3	631.9	4.984	388.6	504.5	540.2	456.4	633.1	0.607	781.3	4.629	9.965	636.9	473.5	0.959	662.2	0*606	754.7	121.4	-129.5	-141.8 -	-136.6 -	- 105.7 -	-43.3	-19.3	- 123.2
200	o	627.7	534.2	1.991	718.4	676.5	6.017	516.8	437.2	567.6	1.709	513.5	712.3	9.161	878.9	1.807	671.1	6.617	532.7	738.0	745.0	1022.7	0.648	136.6	-145.7	-159.5 -	-153.7 -	-118.9 -	-48.7 -	-21.7	-138.7	452.5 -
3	60	593.5	518.5	798.2	9.157	8.687	574.2	185.7	9.059	675.2	5.075	4.167	886.2	9.916	7.987	745.7	6.661	69169	820.0	827.8	1136.3	943.4 1	151.8	-161.9	-177.3 -	-170.8 -	-132.1 -	-54.2 -	-24.1	-154.1	-502.8 -	-476.9 -452.5
V CK	-	59.35	51.85	79.82	. 91.67	85.87	57.42	18.57	63.06	67.52	50.75	19.14	88.62	99.16	78.67	74.57	66.62	59.19	82.00	82.78	113.63 1	94.34	15.18	-16.19 -	-17.73 -	-17.08 -	-13.21 -	-5.42	-2.41	-15.41 -	-50.28 -	- 69.27
X A	•	26.95		35.00	32.46	35.41	22.00	18.26	21.76	31.67	25.10	37.49	38.59	49.13	33.77	29.27	29.70	29,39	42.15	38.38	48.39 1	39.11	54	- 14.09 -	- 16.61 -	- 10.94 -	-8.81 -	-3.08	.28	-11.33 -	-29.16 -	-33.11 -
IKENDEX	v)	13.84	13.93	14.17	14.91	14.77	15.73	16.43	17.14	16.23	17.33	17.66	17.57	17.26	19.13	19.75	20.00	19.19	19.43	20.87	21.37	21.68	24.28	24.35 -	25.74 -	25.59 -	25.53	25.94	24.83	27.62 -	28.88 -	- 11.18
	#	32.4	27.9	8.44	42.7	43.6	35.4	30.3	41.3	35.9	32.0	41.7	50.0	48.5	6.44	45.3	50.3	29.8	39.8	4.44	65.2	55.2	15.7	-2.1	-	-6.1	4.4-	-2.3	-2.7	-4-1	-21.1	-14.6
	₩	13.27	13.49	13.21	13.84	13.93	14.17	14.91	14.77	15.73	16.43	17.14	16.23	17.33	17.66	17.57	17.26	19.13	19.75	20.00	19.19	19.43	20.87	21.37	21.68	24.28	24,35	25.74	25.59	25.53	25.94	24.83
	2	17.57	17.26	19.13	19.75	20.00	19.19	19.43	20.87	21.37	21.68	24.28	24.35	25.74	25.59	25.53	25.94	24.83	27.62	28.88	31.71	30.16	24.15	20.92	21.45	22.79	23.28	25.14	24.90	24.49	20.46	21.21
	-	13128	22928	33128	43028	53128	63028	73128	83128	93028	103128	113028	123128	13129	22829	33129	43029	53129	63029	73129	83129	93029	103129	113029	123129	13130	22830	33130	4 3030	53130	63030	73130

GUIDE

	-165.	-2cc.	-238.	-273.	-304.	-315-	-312.	-319.	-326-	-361.	-368.	* * * * * * * * *	-374.	-4C5.	-423.	-438°	-466.	-455.	-506.	-525.	-528-	-6C8.	-645.	-646-	-593.	-550.	-522.	-472.	-422.	-374.	-342.	-289-	-136-	58.
	-16.2		-17.1	-13.2	7.5-	-2 · 4	-15.4	-50.3	-47.7 ·	-51.8	-58.7	- 9.59-	-67.8	-69.2	- 54°C	-45.1	- 59.7	-73.6 -	-84.6	-70.5	- 7.67-	-51.7	- 6.96-	-87.2 -				-96.3 -		•				-57.0
	-35.5 -	-34.2 -	-26.4 -	-10.8 -	9.4-	-30°E		- 4°56-							- 300-										3.2 -	6.8-10	2.6-10		5.4-10	6.2-1	6.8-11	8 - 3 - 1	4.0-10	8.8
	-51.2 -3	-36.6 -3		-7.2 -1	-46.2 -		-143.1-100.6	-155.3 -9	-176.0-103.5	-196.8-117.3	-203.4-131.2	-207.5-135.6	-161.9-138.3	-135.3-107.9	3.2 -9	-220.7-119.5	-253.7-147.1	-211.6-169.1	-239.1-141.0	-173.1-159.4	-29C.7-115.4	-261.5-193.8	-260.9-174.4	-304.8-173.9	-325.1-203.2	-288.9-216.8-101.6	-318.4-192.6-108.4	-368.1-212.3	-429.2-245.4-106.1	-415.1-286.2-122.7	-327.4-276.8-143.1	-171-1-218-3-136-4	-193.3-114.0-109.1	-229.6-128.8
			•			8 -150.8									3 -175.2								1 -260	-304									- 193	
	-52.8	-21.7	-9.7	-61.6	-201.1	-190.8	-207.1	-234.6	-262.4	-271.2	-276.7	-215.9	-180.4	-239.0	-294.3	-338.3	-282.1	-318.7	-230.8	-387.6	-348.7	-347.9	4.004-	-433.5	-385.2	-424.5	-490.8	-572.3	-553.5	-436.5	-228.1	-257.7	-306.1	-207.5
	-27.1	-12.1	-77.0	-251.4	-238.5	-258.9	-293.3	-328°C	-335.1	6.545-	-265.5	-225.4	-298.7	-367.8	-422.9	-352.6	-398.4	-288.5	-484.5	-435.9	-434.8	-508.C	-541.9	-481.4	-530.6	-613.5	-715.4	-691.9	-545.7	-285.1	-322.1	-382.6	-259.4	-236.2
!	-14.5	-92.4	-301.7	-286.2 -	-310.6 -	-351.9 -	-393.6 -	-406.9 -	-415.0 -	-323.8 -	-270.5 -	-358.4 -	-40144-	-507.4 -	-423.1 -	-478.1 -	-346.2 -	-581.4 -	-523.1 -	-521.8 -	- 9.609-	-650.3 -	-577.7 -	-636.8 -	-736.2 -	-858.5 -	-830.3 -	- 654.8 -	-342.1 -	-386.5 -	-459.1 -	-311.3 -	-263.5 -	-259.4 -
	-107.8	-352°C	-333.8 -	-362.4 -	- 410.6 -	-459.2 -	- 1-474-	-484.2 -1	-377.8 -	-315.6 -	-418.2 -	-514.9 -	-592.0 -1	-463.7 -	-557.8 -	-403.9 -1	-618.3 -3	-610.2 -									-164.0 -E	-359.1 -6	-450.9 -	-535.6 -3	-363.2 -1	-330.7 -3	-302.6 -2	-376.1 -2
																			8 -608.8	0 -711.2	3 -758.7	0-419- 0	7 -742.9	6 -859.0	0-100	1 -968.6								1 -37
:	-402.2	-381.5	-414.2	-469.2	- 524.8	-542.5	-553.4	- 431.B	-360.7	-477.9	-588.5	-676.6	-564.2	-637.5	-461.6	-775.2	4.769-	- 695.7	-812.8	-867.	-770.	-849.	-981.	-1144.	-1167.	-873.1	-456.2	-515.3	-612.2	-415.0	-377.9	-345.9	-422.9	-204.1
	-429.2	-466.0	-527.9	-590.4	-610.3	-622.5	-485.8	-405.8	-537.6	-662.1	-761.2	-634.7	-717.2	-519.3	-872.1	-784.6	-782.7	4.419-	-975.4	866.6	-955.1 -770.3	104.4	287.7	245.4-	-982.2-1107.0-1001.5	-513.2	-579.8	-688.7	-466.9	-425.2	-389.1	-475.8	-229.¢	778.4
,	-517.7 -	-586.5 -	- 0.950-	-678.1 -	- 691.7 -	-539.7 -	-450.9 -	- 597.4 -	-735.6 -	-845.7 -	-705.2 -	- 6.961-	-577.0 -	- 0.696-	-871.8 -			- 83.8	- 65.9	-51.56-106.13-1061.3 -866.6 -867.0	-55.22-122.71-1227.1	-69.86-143.C8-1430.8-1104.4 -849.C	-67.73-138.38-1383.8-1287.7 -981.7	-55.99-109.14-1091.4-1245.4-1144.6	-570.2 -	-644.2 -	-765.2 -	-518.8 -	-472.4 -	-432.3 -	-528.7 -	-2555.1 -	- 6.498	1494.8
																-38.07 -86.97 -869.7	-49.53-101.60-1016.0	-56.00-108.38-1083.8	-50.33 -96.29 -962.9	13-10	.71-12	.ce-14	.38-13	14-10					-47.24-	-43.23 -1	-52.87 -	-25.51 -2	86.49	149.46 11
	4 -51.77	2 -58.65	2 -65.60	5 -67.81	9 -69.17	8 -53.97	8 -45.C9	7 -59.74	8 -73.56	6 -84.57	8 -70.52	5 -79.69	4 -57.70	9-96-8	5 -87.18	7 -86	3-101	0-108	3 -96	6-106	2-122	6-143	3-138	9-109	9 -57.02	7 -64.42	4 -76.52	3 -51.68						
•	-29.14	-23.02	-19.02	-22.75	-32.69	-30.88	-28.68	-32.97	-38,38	-36.36	-30.08	-35.75	-25.44	-42.68	-36.45	-38.0	-49.5	-56.0	-50.3	-51.5	-55.2	-69.8	-67.7	-55.9	-13.59	-23.27	-26.74	-19,33	-12.67	-16.28	-22.57	.34	86.13	117.61
)	30.16	24.15	20.92	21.45	22.79	23.28	25.14	24.90	24.49	20.46	21.21	21.37	18.59	16.54	16.57	15.34	16.09	17.93	16.69	15.09	13.02	14.83	13.73	13.86	11.6	10.53	9.50	8.12	7.89	8.29	7.31	5.83	4.47	4.43
,	-22.6	-35.6	9.94-	-45.1	-36.5	-23.1	-16.4	-26.8	-35.2	-48.2	4.04-	-43.9	-32.3	-54.2	-50.7	-48.9	-52.1	-52.4	0.94-	-54.6	-67.5	-73.2	9*01-	-53.1	-43°#	-41.2	8.64-	-32.5	-34.6	-26.9	-30.3	-25.9	₹.	31.9
1	27.62 -	28.88 -	31.71	30.16 -	24.15 -	20.92 -	21.45 -	22.79 -	23.28 -	25.14 -	- 06*#7	24.49 -	- 94.02	21.21 -	- 75.12	18.59 -	- 16.91	- 75.91	15.34 -	- 60.91	17.93 -	- 69.91	- 60.51	13.02 -	14.83 -	3.73 -	3.86 -	9.71 -	10.53 -	- 05.6	8.12 -	- 68.7	8.29	7.31
4	21.37 27	18.59 28	16.94 31	16.57 30	15.34 24	16.09 20	17.93 21	16.69 22	15.09 23	13.02 25	14.83 24	13.73 24	13.86 20	9.71 21	10,53 2	9.50 18	8.12 14	7.89 16	8.29 19	7.31 16	5.83 17	4.47 10	4.43 1	6.10 13	8.39 11	8.08	6.96 1	6.55	6.89	76.9		. 53.5	8.32	49.6
																		3032 7												13133 6		33133 5	3033 8	53133 9
	83130	93030	103130	113030	123130	13131	22831	33131	43031	53131	63031	73131	83131	93031	103131	113031	123131	130	22832	33132	43032	53132	63032	73032	83132	93032	103132	113032	123132	131	22833	331	14.30	531

12 13 14



18	242.	379.	542	25¢	571.	561.	565	633.	653	611.	586.	526.	th C.	323.	227.	155	65.	=	-27.	-64.	-65-	-132.	-13C-	-121.	-84.	-31.	21.	92*	157.	226.	306.	387.	463.	525.
17	4.49-	-76.5	-51.9	-47.2	-43.2	-52.9	-25.5	86.5	149.5	166.0	141.2	187.6	102.4	43.6	65.7	90.06	167.9	140.1	84.1	93.3	52.4	16.5	-31.7	-23.0	-7.0	-31.4	- E • 5	-8.5	-23.3	-32.2	-43.2	-17.2	-13.2	15.7
91	153.0	103.8	-94.5	-86.5	105.7	-51.0	173.0	299.0	332.0	282.4	375.2	204∘8	87.2	131.3	181.3	335.8	280.2	168.2	186.6	104.7	33.0	-63.4	-46.1	-14.0	-62.8	-17.0	-17.8	-46.6	-64.3	-86.4	-34.4	-26.5	31.3	72.8
15	-155.6-153.0	-141.7-103.8	-129.7	-158.6	-76.5-105.7	259.5	448.4	0.854	423.6	562.8	307.1	130.8	197.0	271.9	563.7	420.3	252.3	275.9	157.1	9.54	-95.1	-69-1	-20.9	-94.2	-25.5	-26.8	- 70.0	- 96.5	-129.6	-51.6	-39.7	0.74	109.2	119.4
2	-189.0	-172.9	-211.5	-102.0	346.0	597.9	0.499	564.8	750.4	409.5	174.4	262.7	362.6	671.5	560.4	336.4	373.2	209.4	0.99	-126.8	-92.2	-27.9	-125.6	-34.0	-35.7	-93.3	-128.7	-172.8	-68.8	-52.9	62.6	145.6	159.2	259.4
13	-216.2	-264.3	-127.6	432.5	747.4	829.9	705.9	538°C	511.9	217.9	328.4	453.2	839.4	700.5	420.5	466.6	261.8	82.5	-158.4	-115.2	-34.9	-156.9	-42.5	9.44-	-116.6	-160.8	-216.C	-85.9	1-99-	78.3	181.9	198.9	324.3	333.9
12	-317.2	-153.1	518.9	6.968	60266	847.1	1125.5	614.3	261.5	394.0	543.9	1007.3	840.6	504°6	559.9	314.1	0.66	-19001	-138.3	-41.9	-188.3	-51.0	-53.5	-139.9	-193.0	-259.2	-103.1	4.61-	63.9	218.3	238.7	389.1	400.7	471.7
=	-178.6	4.509	1046.4	1161.9	588.3	1313.1	7.917	305.1	459.7	634.5	1175.2	980.7	588.7	653.2	366.5	115.5	-221.8	-161.3	-48.9	-219.7	-59.5	-62.5	-163.3	-225.1	-3C2.4	-120.3	-92.6	109.6	254.7	278.5	454.0	467.5	550.4	700.2
2	6.169	1493.9 1195.9	1270.7 1327.9	1129.5	1500.7	819.1	348.7	525.4	725.2	1343.1	1120.8	672.8	746.5	418.9	132.0	-253.5	-184.4	-55.8	-251.1	-68.0	-71.4	-186.6	-257.3	-345.6	-137.5	- 105.8	125.3	291.1	318.3	518.8	534.3	629.0	800.2	8.606
o	1345.3	1493.9	1270.7	1688.3	921.4	392.3	591.1	815.8	1511.0	1260.9	757.0	839.8	471.2	148.5	-285.2	-207.4	-62.8	-282.5	-76.5	-80.3	-209.9	-289.5	-388.8	-154.7	-119.1	140.9	327.5	358.1	583.7	601.0	707.6	900.2	1023.6	1124.5
æ	1659.9	1411.9	1875.9	1023.8	435.9	656.7	906.5	1678.8	1401.0	841.1	933.1	523.6	165.0	-316.9	-230.5	-69.8	-313.9	-84°9	-89.2	-233.2	-321.6	-432.0	-171.9	-132.3	156.6	363.9	397.9	648.5	8.199	786.2	1000.2	1137.3	1249.4	1247.3
~	165.99	14 1.19	187.59	102.38	43.59	65.67	90.65	167.88	140.10	84.11	93.31	52.36	16.50	-31.69	-23.05	-6.98	-31.39	-8.49	-8.92	-23.32	-32.16	-43.20	-17.19	-13.23	15.66	36.39	39.79	64.85	66.78	78.62	100.C2	113.73	124.94	124.73
4	78.85	18.59	37.25	41.24	36.79	43.40	45.53	97.35	83.93	29.21	8.51	-11.92	-1.41	-21,73	-6.92	1.56	-10.83	-5.54	-14.95	-15.43	-18.70	-19.02	-3.43	-2.34	17.86	21.09	24.40	31,44	30.61	36.32	47.58	63.73	71.78	60.78
wn	6.10	8.39	8.08	96.9	6.55	69.9	46.9	5.66	5.85	8.32	49.6	10.91	9.95	11.09	9.83	8.96	9.68	10.10	11.17	10.76	10.75	10.46	9.61	9.61	8.68	9.15	9.10	8.81	9.54	9.50	9.10	8.74	8.47	9.28
*	87.1	122.6	150.3	61.1	6.8	22.3	45.1	70.5	56.2	54.9	84.8	64.3	17.9	-10.0	-16.1	-8.5	-20.6	-3.0	0.9	6-1-	-13.5	-24.2	-13.8	-10.9	-2.2	15.3	15.4	33.4	36.2	42.3	52.4	20.0	53.2	0.49
ĸ	5.83	4.47	4.43	6.10	8.39	8.08	96.9	6.55	6.89	46.9	5.66	5.85	8.32	9.64	10.91	9.95	11.09	9.83	8.96	9.88	10.10	11.17	10.76	10.75	10.46	9.61	9.81	8.68	9.15	9.10	8.81	9.54	9.50	9.10
2	10.01	9.95	11.09	9.83	8.96	98.6	10.10	11.17	10.76	10.75	10.46	19.6	9.81	8.68	9.15	9.10	8.81	9.54	9.50	9.10	8.74	8.47	9.28	9.58	10.23	11.08	11.32	11.58	12.46	12.95	13.43	14.31	14.55	14.92
-	63033	73133	83133	93033	103133	113033	123133	13134	22834	33134	43034	53134	63034	73134	83134	93034	103134	113034	123134	13135	22835	33135	43035	53135	63035	73135	83135	93035	103135	113035	123135	13136	22836	33136

8	550.			577.	545.	526.	501.	460.	#28°	398.	372.	323.	272.	221.	193.	154.	81.	2.	-82.	-166-		-285-	-353.	-396-	-431.	-428.	-402.	-364.	-321.	-253.	-180.	-66-	-4C.
21	36.4	64.9	8.99	78.6	100.0	113.7	124.9	124.7	101.3	110.8	93.8	105.5	94.46	73.0	84.9	77.9	57.9	60.2	55.9	55.4	27.0	18.5	9.6	24.1	8 • 3	-33.2	-51.2	-65.9	-79.5	-19.0	-70.7	9.001	-86.7
2	79.6	133.6	157.2	200.0	227.5	549.9	249.5	202.6	221.5	187.7	210.9	188.8	146.0	6.691	155.8	115.9	120.5	111.9	110.7	54.0	37.1	18.0	48.2	16.5	-66.5	102.3						173.4-	
51	194.6	235.9	300.1	341.2	374.8	374.2	303.9	332.3	281.5	316.4	283.2	219.0	254.8	233.7	173.8	180.7	8.191	1.991	1.18	55.6	27.0	72.3	24.8	1.66-	-153.5	-197.8-	-238.6-131.9	-237.1-159.1	-212.1-158.1	-301.8-141.4	-260.2-201.2	-264.2-173.4-100.6	-184.7-176.2
2	267.1	400	454.9	8.994	498.9	405.2	443.1	375.4	421.9	377.6	291.9	339.7	311.6	231.7	240.9	223.8	221.5	108.1	74.2	36.0	4.96	33.1	-132.9	-204.7	-263.8 -1	-318.1 -1	-316.2 -	-282.8 -2	-40204-	-346.9 -3	-352,3 -2	-246.2 -	-185.7 -
13	393.1	568.6	624.7	623.7	506.4	553.9	469.2	527.3	471.9	364.9	424.6	389.4	289.7	301.1	279.7	8.912	135.1	92.7	145.0	120.5	41.4	-166.2	-255.9 -	-329.7 -	-397.6 -	-395.2 -	-353.6 -	-503.0 -	-433.6 -	- 4 . 3 4 4 -	-307.6 -	-232.2 -	-170.2 -
12	600.1	749.6	748.4	7.709	9.499	563.1	632.8	566.3	437.9	9.605	467.3	347.6	361.4	335.7	332.2	162.1	111.3	54.0	144.6	49.6	4.66I-	-307.0	-395.6	-477.2	-474.3	-424.3	-603.6	-520-3	-528.5	-369.4	-278.6	-204.3	-173.3
=	796.1	873.1	709.0	775.4	6.959	738.3	4.099	510.9	594.5	545.2	405.6	421.6	391.6	387.6	189.1	129.8	63.0	168.8	57.9	-232.6	-358.2	-461.6	-556.7	-553.3	-495.0	-104.2	-607.1	-616.5	-430.9	-325.0	-238.3	-202.2	4.5
91	999.5	810.3	_	750.8	843.7	755.1	583.9	4.679	623.1	463.5	481.8	447.6	442.9	216.1	148.4	72.0	192.9	66.2	-265.9	4.604-	-527.5	-636.2	-632.3	-565.7	- 8C4.7	-693.8	-704.6	-492.5	-371.5	-272.3	-231.1	5.2	105.4
۰	1122.6	947.0	844.6	949.2	849.5	656.9	764.3	701.0	521.4	542.0	503.5	498.3	243.2	166.9	81.0	217.0	74.5	-299.1	-460.6	-593.4	-715.8	-711.4	-636.4	-905,3	-780.5	-792.7	-554.0	-417.9	-306.4	-260.0	5.8	118.6	274.1
œ	1012.9	938.5	1054.7	943.9	729.9	849.3	778.9	579.4	602.3	559.5	553.7	270.2	185.5	0.06	241.1	82.7	-332.3	-5113-	- 4.659-4	-795.3	-790°#	-107.1		-867.2	-880.8	-615.6	-464.3	-340.4	-288.9	6.5	131.8	304.5	191.8
-	101.29	93.85	105.47	94.39	72.99	84.93	77.89	57.94	60.23	55.95	55,37	27.02	18.55	00.6	24.11	8.27	-33.23	-51.17	-65.94	-79.53	-79.04	-70.71	-48.27-100.59-1005.9	-86.72	-88.08	-61.56	46.43	-3 4 . C4	-28.89	.65	13.18	30.45	19.18
•	43.74	33.04	40.02	38.08	28.49	32.90	28.67	20.06	22.54	21.25	30.14	14.10	9.57	-2.84	61.9	.19	-20.05	-28.47	-35.33	-40.83	-40.91	-36.72	-48.27-	-40.34	-39.81	-31.92	-22.69	-12,35	97	18.54	20.66	23.57	8.47
kn .	9.58	11.68	11.32	11.58	12.46	12.55	13.43	14.31	14.55	14.52	13.77	14.40	14.84	15.85	15.99	16.01	17.21	17.28	17.18	17.83	18.09	17.52	16.43	16.26	15.40	16.58	16.04	13.76	12.36	====	10.55	10.69	11.34
•	57.6	0.0	65.h	56.3	44.5	52.0	49.2	37.9	37.7	34.7	25.2	12.9	0.6	11.8	17.9	8.1	-13.2	-22.7	-30.6	-38.7	-38.1	-34.0	-52.3	4.64-	-48.3	-29.6	-23.7	-21.7	-27.9	-17.9	-7.5	6.9	10.7
ю	8.74	8.47	9.58	10.23	11.08	11.32	11.58	12.46	12.95	13.43	14.31	14.55	14.92	13,77	14.40	14.84	15.85	15.99	16.01	17.21	17.28	17.18	17.83	18.09	17.92	16.43	16.26	15.40	16.98	16.04	13.76	12.36	=======================================
7	13.77	07.41	15.85	15.99	16.01	17.21	17.28	17.18	17.83	18.09	17.92	16.43	16.26	15.40	16.98	16.04	13.76	12,36	11.11	10.55	10.69	11.34	8.50	9.70	9.27	11.56	12.40	12.06	12.24	13,17	12.73	13.21	12.30
-		53136	73136	83136	93036	103136	113036	123136	13137	22837	33137	43037	53137	63037	73137	83137	93037	103137	113037	123137	13138	22838	33138	43038	53138	63038	73138	83138	93038	103138	113038	123138	13139



8	58.	86.	103.	134.	120.	133.	58.	80.	.99	4 C .	21.	2 .	-2-	ę.	5.	-28.	-50.	- 6 h .	-78.	-96-	- 46-	-114.	-128.	-144.	-161-	-169.	-164.	-167.	-161-	-122.	-21.	-82.	-61.	-36-
11	-88.1	-61.6	-46.4	-34.0	-28.9	9.	13.2	30.5	19.2	8.59	15.9	14.1	36.8	u) + 1	29.7	-11.9	3.9	7.2	-8.0	-3.6	-10.5	2.3	11.8	=	-30.2	-25.7	-15.3	-21.7	-28.4	-10.1	-33.6	-29.7	-34°4	-35.6
2	123.1	-92.9	-68.1	-57.8	1.3	26.4	6.09	38.4	139.6	31.8	28.2	73.6	6*-	59.4	-23.9	7.7	14.3	-15.9	-7.2	-20.9	9 * 7	23.5	2.1	4.09-	-51.4	-38.5	-43+3	-56.8	-20.1	-67.1	-59.5	-689-	-79.2	-71.3
15	-139.3-123.1	-102.1 -92.9	-86.7	1.9	39 • 5	91.4	57.5	209.4	47.7	42.3	110.4	-1.4	89.1	-35.8	11.6	21.5	-23.9	-10.9	-31.4	6.9	35.3	3.2	9.06-	-77.2	-57.8	- 65.0	-85.1	-30.2	-1001-	-85.2	-103.3	-118.8	- 106.9	-68.4
2	-136.2	-115.5	5.6	52.7	121.8	7.97	279.2	63.6	56.4	147.3	-1.8	118.9	-47.8	15.4	28.7	-31.9	-14.5	-41.8	9.2	47.1	4.3	-120.9	-102.9	-77.0	-86.6	-113.5	-40.3	-134.2	- 118.9 -	-137.8	-158.4 -	-142.6 -	-91.3 -	-119.9
13	1044-	3.2	6.59	152.3	6.56	349.0	19.5	70.5	184.1	-2.3	148.6	-59.7	15.3	35.9	-39.9	-18.1	-52.3	11.5	58.9	5.4	-151-1	-128.6 -	-96-3	-108.3	-141.9	- 50.4 -	-167.8	- 148.7 -	-172.2 -	-198.c -	-178.2 -	-114.1-	5.241-	-117.4 -
12	3.9	79.1	182.7	115.1	418.7	95.5	84.6	220.9	-2.8	178.3	7.1.7-	23.2	43.0	-47 .B	-21.7	-62.8	13.8	10.6	6 . 4	-181.3	-154.3 -	-115.5 -	-129.9	-170.3 -	- 4000-	-201.4	-178.4 -	-206.7 -	-237.6 -	-213.8 -	-136.9 -	-179.9 -	-140.8	62.8 -
=	92.2	213.2	134.2	488.5	111.4	58.7	257.7	-3.2	2 C B . C	-63.6	27.0	50.2	-55.8	-25.3	-73.2	16.1	82.4	7.5	-211.5	-18C.C -	-134.8	-151.6 -	-158.6 -	- 70.5 -	-234.9	-2c8.2 -	-241.1	-2773-2 -	-249.5 -	- 159.7 -	- 5003-	-164.3 -	73.3	-1.2
2	243.6	153.4	558.3	127.3	112.8	294.5	-3.7	237.7	-95°6	30.9	57.4	-63.8	-28.9	-83.7	18.4	94.2	8.6	-241.7	-205.7	-154.0	-173.3	. 227.0 -	-80.6	268.5	-237.9 -	.275.5 -	-316.8 -	-285.1 -	- 182.5	- 539.9 -	- 187.8 -	83.8	-1.4	-70.5
٥	172.6	£28.1	143.2	126.9	331.3	-4-1	267.4	-107.5	34.7	64.5	-71.8	-32.6	-94.1	20.7	106.0	9.6	-271.9	-231.5 -	-173.3 -	-194.9	-255.4 -	- 2.06-	-302.1	-267.6 -	-310.0 -	-356.4 -	-320.7 -	-205.3 -	-269.9 -	-2111.2 -	94.2	-1.5	4.67-	-184.5
æ	6*269	159.1	141.0	368.2	-4.6	297.2	-119.5	38.6	71.7	7.62-	-36.2	-104.6	23.0	117.7	10.7	-302.1	-257.2 -	-192.5 -	-216.6 -	-283.8 -	-1001-	-335.6	-297.4 -	-344°4 -	-396*0 -	-356.4 -	-228.2 -	-299.9 -	-234.7 -	104.7 -	-1.7	-88.2	-205.0	-286.2 -
7	69.79	15.91	14.10	36.82	040-	29.72	-11.95 -	3.86	7.17	15.1-	-3.62	-10.46	2.30	11.77	1.07	-30.21 -	-25.72 -	-19.25 -	-21.66 -	-28,38 -	-10.C7 -	-33.56 -	-29.74 -	-34.44 -	-39.60 -	-35.64 -	-22.82 -	-59.99 -	-23.47 -	10.47	11	-9.82	-20.5c -	-28.62 -
w	49.41	13.20	17.80	•35	12.42	17	-8.66	-1.14	.79	-7.65	1.54	-5.12	10.47	12.18	5.09	-14.64 -	-17,11	-7.96 -	-18.89 -	-16.91 -	-9.18	-15.05 -	-12.20 -	-16.98 -	-19.02 -	-18.29 -	• lt 3	-6.31	-4.28	-1.61	-3.38	-7.94	- 10.46 -	- 13.99 -
w)	8.50	01.6	75.6	11.56	12.40 -	12.06	12.24	13.17	12.73	13.21	12.30	12.70	10.58	10.92	11.60	10.86 -	12.04 -	11.18	13.02 -	12.83 -	12.20	12.45 -	12.C5 -	12,13	12.25 -	12.19 -	9.27	96.6	10.29	10.56	10.66	11.08	10.01	10.58
4	20.4	2.7	-3.7	36.5	12.0	29.9	-3.3	5.0	4.9	™ • I	-5.2	-5.3	-8.2	170-	-4.0	-15.6	-8.6	-11.3	-2.8	-11.5	6	-18.5	-17.5	-17.5	-20.6	-17.3	-23.2	-23.7	-19.2	12.1	3.2	6	-10.0	-14.6
M	10.55	10.69	11,34	8.50	9.70	9.27	11.56	12.40	12.06	12.24	13,17	12.73	13.21	12,30	12.70	10.98	10.92	11.60	10.86	12.04	11.18	13.02	12.83	12.20	12.49	12.05	12,13	12.25	12.19	9.27	9.98	10.29	10.56	10.66
2	12.70	10.98	10.92	11.60	10.86	12.04	11.18	13.02	12.83	12.20	12.49	12.05	12.13	12.25	12.19	9.27	9.98	10.29	10.56	10.66	11.08	10.61	10.58	10.07	9.92	96*6	9.31	9,35	9.85	10.39	10.30	10.20	9.50	9.10
-	22839	33139	4 3039	53139	63039	73139	83139	93039	103139	113039	123139	13140	22840	33140	0 70 2 17	53140	63040	73140	83140	93040	103140	113040	123140	13141	22841	33141	43041	53141	6 30 4 1	73141	83141	93041	103141	113041



91	-165.	-114.	-106.	-123.	-146.	-161-	-166.	-166.	-165.	-157.	-133.	-109.	-71.	-28.	51.	135.	194.	274.	351.	388	412.	421.	421.	386.	348.	312.	269.	225.	177.	135.	124.	105.	£8.	. 49
11	-35.6	-22.8	-3C.C	-23.5	10.5	- • 2	- B • B	-2c.5	-28.6	-35.3	-28.2	-11:1	-34.4	-4C.9	-35.4	-31.C	-25.3	-28.0	-21.7	-5.C	-2.0	13.7	22.5	6.59	82.6	61.8	97.1	105.5	7€.€	75.5	4.69	9.99	37.3	35.7
9	-45.6	0.09-	-46.9	20.5	1	-17.6	-41.0	-57.2	-70.5	-56.3	-22.2	-68.8	-81.7	-70.9	-61.9	-50.7	-56.0	-43.3	-10.1	0.4-	27.5	44.9	127.8	165.2	123.6	194.2	211.0	157.6	151.0	138.7	133.2	74.€	71.3	70.6
15	-90.0	-7C.4	31.4	1 .	-26.5	-61.5	-85.9	-105.8	-84.5	-33° h	-103.3	-122.6	-106.3	-92.9	-76.0	-83.9	-65.0	-15.1	-6.1	41.2	67.4	191.7	247.8	185.4	291.3	316.5	236.4	226.5	208.1	199.8	1111.9	107.C	105.9	69.2
2	-93.9	41.9	7	-35.3	-82.0	-114.5	-141.1	-112.6	-44.5	-137.7	-163.4	-141.7	-123.9	-101-4	-111.9	-86.7	-20.1	-8.1	55.0	6.68	255.6	330.5	247.3	388.4	422.0	315.2	302.0	277.4	266.4	149.3	142.7	141.1	92.2	75.4
13	52.4	5.1	-44.1	-102.5	-143.1	-176.4	-140.8	-55.6	-172.1	-204°3	-177.2	-154°E	-126.7	-139.9	-108.3	-25.1	-10.1	68.7	112.3	315°6	413.1	305.1	485.4	527.5	394.1	377.5	346.8	333°C	186.6	178.3	176.4	115.3	94.2	29.6
12	-1.0	-52.9	-123.0	-171.7	-211.6	-168.9	7.99-	-206.5	-245.1	-212.6	-185.8	-152.1	-167.9	-130.0	-30.2	-12.1	82.4	134.8	383.5	1.954	370.9	582.5	633.0	472.9	453.0	416.2	399.6	223.9	214.0	211.7	138.3	113.1	35.6	39.9
=	-61.7	-143.5	-2CC.4	-246.9	-157.1	- 41.9	-240.9	-286.C	-248.0	-216.7	-177.4	-155.8	-151.6	-35.2	- 14 - 1	56.2	157.3	447.4	578.3	432.7	679.6	738.5	551.7	528.5	465.5	466.2	261.2	249.7	247.0	161.4	131.9	41.5	46.5	161.9
10	- 164.0	-229.0	-282.2	-225.2	-89.0	-275.4	-326.9	-283.5	-247.7	-202.7	-223.8	-173.3	-40.2	-16.1	109.9	179.7	511.3	6.099	494.5	776.7	844.0	630.5	0.409	554.9	532.7	298.5	285.3	282.3	184.4	150.8	4.74	53.2	185.0	101.3
σ.	-257.6	-317.5	-253.4 -	-10001-	-309.8	-367.7 -	-318.9	-278.7	-228.1	-251.8	-195.0	-45.2	-18.2	123.6	202.2	575.2	743.5	556.3	873.8	5 * 6 # 5	709.3	679.5	624.2	599.3	335.8	321.0	317.6	207.5	169.6	53.3	59.8	208.1	114.0	4.68
<b>6</b> 0	-352.7	-281.5	-1111.2	-344°2 .	-4C8.6	-354.3	-309.6	-253°4	-279.8	-216.6	-50.3	-20.2	137.4	224.7	639.1	826.2	618.2	6.016	1055.0	788.1	755.0	693.6	6.539	373.1	356.7	352.8	230.6	188.4	59.3	66.5	231.2	126.7	99.3	166.3
7	-35.27	-28.15	-11.12	-34.42	-40.86 ·	-35.43	-30.96	-25.34	-27.58	-21.66	-5.03	-2.C2	13.74	22.47	63.51	82.62	61.82	97.C9	105.50	78.81	75.50	69.36	66.59	37.31	35.67	35.28	23.06	18.84	5.53	6.65	23.12	12.67	9.93	16.63
•	-13,70	-11.19	-2.71	-13.96 -	-18,07	-17.26	-20.12	-16.89	-15.49	-6.84	3.52	06*9	10.90	7.74	37 . 33	51.17	42.21	45.90	44.28	35.50	33.33	28.24	28.31	12.79	11.78	7.73	2.07	3.71	-1.98	00.	11.13	7.71	6.13	7.21
w	10.01	9.92	96.6	9.31	9.35	9.85	10.39 -	10.30	10.20	9.50	9.10	8.69	8.81	69.6	8.01	7.66	8.15	8.30	8.56	8.62	8.85	9.42	9.29	9.77	10.44	11.00	11.58	11.59	112.11	12,35	11.68	11.80	12.08	11.92
a	-21.6	-17.0	4.8-	-20.5	-22.8	-18.2	-10.8	18.4	-12.5	-14.8	-8.5	-8.9	2.8	14.7	26.6	31.4	19.6	51.2	61.2	43.3	42.2	41.1	38.3	24.5	23.9	27.6	21.0	15.1	7.9	9.9	12.0	2.0	3.8	4.6
м	11.08	10.61	10.58	10.01	9.92	96.6	9.31	9.35	9.85	10.39	10.30	10.20	9.50	9.10	8.69	8.81	69.6	8.01	7.66	8.15	8.30	8.56	8.62	8.85	9.42	9.29	9.77	10.44	11.00	11.58	11.59	12,11	12,35	11.68
8	8.69	8.81	69.6	8.01	7.66	8 15	8.30	8.56	8.62	8.85	9.42	9.29	11.6	10.44	11.00	11.58	11.59	12.11	12,35	11.68	11.80	12.08	11.92	11.02	11.67	11.85	11.82	12.02	11.87	12.35	12.98	12.71	12.82	12.78
-	123141	13142	23942	33142	43042	53142	63042	73142	83142	93042	93142	113042	123142	13143	22843	33143	43043	53143	63043	73143	83143	93043	103143	113043	123143	13144	22844	33144	43044	53144	63044	73144	83144	93044



16	es.	96.	116.	14 C.	149.	171.	186.	202.	203.	210.	225.	245.	271.	29C.	317.	322.	325.	327.	339.	33C*	3C5.	261.	158.	133.	10.	16.	-23.	-62.	-104-	-138.	-165.	-176.	-172.
11	35.3	18.8	6.5	6.6	23.1	12.7	6.5	16.6	24.3	16.1	23.5	36.2	41.5	30.0	45.7	40.5	43.7	33.1	6.04	53.6	9.55	6.59	64.7	74.6	56.8	56.1	56.2	8.89	6.64	35.4	14.3	-8-1	-18.0
91	37.7	11.9	13.3	46.2	25.3	19.5	33.3	48.6	32.3	47.0	72.4	83.0	0.09	91.4	81.0	87.5	66.1	81.7	107.2	119.3	127.9	129.4	149.2	113.6	112.1	112.3	137.6	8*66	6.07	28.7	-16.2	-36.0	· 4.64-
15	56.5	19.9	7.59	38.0	25.8	6.64	72.8	48.4	7C.4	108.6	124.5	1.06	137.1	121.5	131.2	99.2	122.6	160.8	178.9	191.8	194.1	223.8	170.4	168.2	168.5	206.5	149.7	106.3	43.0	-24.3	-54°C	-74.1	-77.2
2	23.7	92.5	50.7	39.7	66.5	1.76	9*49	93.9	144.8	166.0	120.1	182.8	162.1	174.9	132.2	163.4	214.4	238.6	255.8	258.9	298.4	227.2	224.2	224.7	275.3	9.661	141.8	57.3	-32.4	-72.0	6.86-	-102.9	-73.1
13	33.2	63.3	1.64	83.2	121.4	80.7	117.4	181.0	207.5	150.1	228.6	202.6	218.7	165.3	204.3	268.0	298.2	319.7	323.6	373°C	284°C	280.3	280.9	344.1	545.5	177.2	71.6	-4C.5	0.06-	-123.6	-126.6	-91.4 -	-128.9
12	138.7	9*65	8*66	145.7	6.36	140.9	217.2	249.0	180.1	274.3	243.1	262.4	198.3	245.1	321.5	357.9	383.7	388.3	9.744	340.8	336.3	337.0	412.9	299.4	212.7	86.0	-48.6	-107.9	-148.3	-154.3 -	-109.7 -	-154.6	-224.7 -
Ξ	88.7	116.4	169.9	113.0	164.3	253.3	250.5	210.1	320.0	283.6	306.1	231.4	286.0	375.1	417.5	9.244	153.0	522.2	3.76	352.4	393.2	8.184	4.645	248.1	100.3	-56.7	-125.9	-173.0 -	-180.0 -	-127.9 -	-18C.4 -	-262.1 -	277.3 -:
0	79.5	194.2	129.2	87.8	289.5	332.0	1.042	365.7	324.1	6.648	264.5	326.8	428°7	477.2	511.6	51.7.7	596.8	54.5	5.844	4.644	9*055	399.3	283.6	114.6	-64.E	-143.9	- 197.7 -	205.7 -	-146.2 -	- 200-2	- 299.6 -	-316.9 -	- 333.4 -
o	149.7	145.3	211.3	325.7	373.5	270.2	411.4	9.498	393.6	297.5	7.798	482.3	536.8	5.575	582.4	4.179	5111.3	504.5	505.5	4.619	149.2	319.0	129.0	-72.9	- 161.9	- 222.4 -	-231.5 -	-164.5 -	-232.0 -	-337.0 -	-356.5 -	-375.1 -	-308-1-
∞	242.8	234.8	361.9	115.0	300.2	1.754	405.1	437.3	330.6	408.5	535.9	596.5	539.5	647.2	746.0	568.1	5.036	561.7	688.2	1.664	354.5	143.3	-81.0	- 179.9	-247.2 -	-257.2 -	-182.8 -	-257.7 -	-374.5 -	-396.1 -	-416.7 -	-342.4 -	-231.8 -
7	24.28	23.48	86.19	41.50	30.02	45.71	10.51	3.73	33.06	40.85	53.59	59.65	93.95	64.72	1 09.47	56.81	90.95	56.17	68.82	16.64	35.45	14.33	- 8.10	-17.59 -	-24.72 -	-25.72 -	-18.28 -	:- 77.2-	-37.45 -	-39.61 -	-41.67 -1	-34.24 -	-23.18 -:
ų.	15.97 2	2.07	3.96 3	4 76.8	16.41	20.16 4	5.64 4	17.7C W	14,35 3	21,36 4	26.45 5	29.77 5	29.44 6	28.88 6	29.86 7	26.69	21.83 5	24.98 5	28.21 6	25.72 4	15.80 3	3.03	- 51.01	-13.67 -1	-15.50 -2	-17.61 -2	75.6-	-14.66 -2	-19.14 -	-23.98 -3	-21.60 -4	-15.31 -	5.352
so.	1.67	11.85	1.82	2.02	1.87	2.35	12.98	12.71	2.82	2.78	12.78	12.83	3.28	13.47	14.30	13.64	14.64	15.01	96.4	4.66	15.51	91 . 91	- 59*91	- 61.71	17.36 -	- 15.81	17.28	- 83.81	- 91.81	19.18	18.43 -	- 96-71	. 53.91
æ	6.2	1.1.	22.2	22.5	15.1	25.5	24.9	26.0 1	18.7	19.5	27.1	29.9	34.5	35.8	7.44	30.1	34.2	31.2	9.04	24.2	19.7	11,3	2.0	-4.3	-9.2	-8-1	-8.9		-18.3	-15.6	-20.1	-18.9	-17.8
N)	11.80	11.92	11.02	11.67	11.85	11.82	12.02	11.87	12,35	12.98	12.71	12.82	12.78	12.78	12.83	13.28	13.47	14.30	13.64	14.84	15.01	14.96	14.66	15.51	16.16	16.65	17.19	17.36 -	18.57 -	17.28 -	18.08	- 97.81	- 81.91
7	12.78	13.28	13.47	14.30	13.64	14.84	15.01	14.96	14.66	15.51	16.16	16.65	17.19	17.36	18.57	17.28	18.08	18.76	19.18	18.43	17.96	16.65	14.96	14.84	14.67	15.30	15.66	15.43	15.17	14.58	14.45	15.21	15.76
-	103144	123144	13145	22845	33145	43045	53145	63045	73145	83145	93045	103145	113045	123145	13146	22846	33146	9 408 4	53146	97089	73146	83146	930#6	103146	113046	123146	13147	22847	33147	43047	53147	63047	73147



36	-158.	-143.	-118.	-95.	-71.	-540	-53.	- 28 -	-2C-	7.	3 C.	£ 30	50.	4 (3 0	57.	44	35.	4 7.	24.	16.	m)	-21.	-40.	-53.	-56-	-56	-42.	-26.	-8-	3C.	59.	88.	133.	176.
7.		-25.7	-18.3	-25.8	-37.4	-39.6	-41.7	-34.2	-23.2	-14.5	-14.0	-2.1	-1.8	eu eu	-4-7	-16.2	1 . 3	7.5	15.8	21.0	13.1	10.7	-1	18.3	J. 9-	2.0	10.2	-7.5	2	-6.4	-21.1	-19.2	-15.7	-10.8
92			1-51.5	6.47-	-79.2	-83.3	-68.5	-46.4	-28.9	-28.1	-403	-3.7	1.6	-9.3	-32.4	5	14.9	39.5	42.1	26.3	21.4	-2.6	36.6	-12.C	4.0	20.5	-15.0	7.	-12.8	-42.3	-38.4	-31.4	-21.6	-15.C
15	-54.8	-77.3	-112.3	-118.8	-125.0	-102.7	-69.5	-43.4	-42.1	-6 . 4	-5.5	2.4	-14.0	-48.6	9.1	22.4	59.3	63.1	39.4	32.1	0 • 11 -	54.5	-17.9	η, 0, φ	30.7	-22.5	9	-19.2	-63.4	-57.6	-47.1	-32.5	-22.5	27.6
2	-103.1	-149.8	-158.4	-166.7	-136.9	-92.7	-57.9	-56.2	-8.6	-7.3	3.2	-18.6	-64.8	-	29.8	79.0	84.1	52.6	42.8	-5.3	73.2	-23.9	7.9	11.0	-30.0	- 8	-25.6	-84.5	-76.8	-62.8	-43.3	-30.0	36.7	37.4
13	-187.2	-198.c	-208.4	-171.2	-115.9	-72.3	-70.2	-10.7	-9.1	400	-23.3	-81°C	-1.4	37.3	98.8	105.2	65.7	53.4	9 - 9 -	91.5	-29.9	6.5	51.2	-37.5	-1.c	-32.0	-105.7	-95.9	-78.5	-54.1	-37.5	45.9	46.7	57.2
12	-237.6	-250.0	-205.4	-139.1	-86.8	-84.3	-12.9	-11.0	8 • 17	-28.0	-97.3	-1.6	10007	118.5	126.2	78.9	64.1	6.7-	109.8	-35.9	11.9	61.5	-45.0	-1.2	-38.4	-126.8	-115.1	-94.3	6.49-	-45.0	55.1	56.0	68.7	193,3
Ξ	-251.7	-239.6	-162.2	-101-3	-58,3	-15.0	-12.8	5.6	-32.6	-113.5	-1.9	52.2	138.3	147.2	52.0	74.8	-6.3	128.1	-41.8	13.9	71.7	-52.5	-1.4	-44.8	-147.9	-134+3	-110.0	-75.8	-52.6	64.3	4.59	80.1	225.5	193.4
2	-273.9	-185.4	-115.7	-112.4	-17.2	-14.6	4.0	-37.3	-129.7	-2.2	59.6	158.0	168.3	105.2	85.5	-10.6	146.4	-47.8	15.8	82.0	0.09-	-1.6	-51.2	-1691-	-153.5	-125.7	-86.6	-60.1	73.5	7.47	91.6	257.7	221.1	247.2
6	-208.6	-130.2	-126.4	-19.3	-16.4	7.2	-41.9	-145.9	-2.5	67.1	177.8	189.3	118.3	96.2	-11.9	164.7	-53.8	17.8	92.2	-67.5	100	-57.6	-190.2	-172.7	-141.4	4.76-	-67.6	82.7	84.0	103.0	289.9	248.7	278.1	458.5
60		-140.5	-21.5	-18.3	8.0	-46.6	-162.1	-2.7	74.5	197.5	210.3	131.5	106.9	-13.2	183.0	-59.8	19.8	102.5	-74.9	-1.9	0.49-	-211,3	-191.9	-157.1	-108.2	-75.1	91.8	93.4	114.5	322.1	276.3	309.0	509.4	573.3
7	-14.47	-14.05	-2.15	-1.83	. BO	-4.66	-16.21	27	7.45	19.75	21.03	13.15	10.69	-1.32	18,30	-5.98	1 ° 5 8	10.25	64.5-	- 19	040-	-21,13	-19.19	-15.71	-10.82	-7.51	9.18	9.34	11.45	32.21	27.63	30.90	76.03	57.33
•		1.82	5.18	-2.03	-2.30	-4.8C	-7.71	3.43	7.13	9.73	6.22	3.46	5.69	989	10.34	-3.59	3047	8.71	-3.05	-2.71	-11.68	-15.23	-10.66	-5.82	-1.74	-5.80	8.75	5.66	10.12	16.62	14.34	17.30	27.34	32.63
S	14.96	14.84	14.67	15.30	15.66	15.43	15.17	14.58	14.45	15.21	15.76	15.32	15.11	15.43	14.99	15.30	14.69	14.00	15.08	15.48	16.69	16.74	15.85	15.57	15.49	16.54	14.75	15.20	15.22	14.62	15.06	14.74	14.19	14.16
a	-16.9	-15.9	-7.3	•2	3.1	-	-8.5	-3.7	PO *	10.0	14.8	7.6	5.0	1.1-	8.0	-2.4	-1.5	1.5	-4.04	2.5	5.3	-5.9	-8.5	6.6-	-6-1	-1.7	7.	3.7	1.3	15.6	13.3	13.6	23.6	24.7
m	18.43	17.96	16.65	14.96	14.84	14.67	15.30	15.66	15.43	15.17	14.58	14.45	15.21	15.76	15.32	15,11	15.43	14.99	15,30	14.69	14.00	15.08	15.48	16.69	16.74	15,85	15.97	15.49	16.54	14.75	15.20	15.22	14.62	15.06
8		15.11	15.43	14.99	15.30	14.69	14,00	15.08	15.48	16.69	16.74	15.85	15.97	15.49	16.54	14.75	15.20	15.22	14.62	15.06	14.74	14.19	14.16	15.04	15.22	15.58	16.04	16.06	16.76	17.05	17.22	17.29	18.07	18.78
-	83147	93047	103147	113047	123147	13148	22848	33148	43048	53148	63048	73148	83148	93048	103148	113048	123148	13149	22849	33149	43049	53149	63049	73149	83149	93049	103149	113049	123149	13150	22850	33150	43050	53150



18	193.	227.	243	254	253	256	271,	278.	273.	275	272	256.	249	253	256.	250	232.	219.	212.	154.	177.	156.	148.	138.	136.	136.	127.	115.	Ξ.	116.	123.	116.	108.
17	-7.5	9.3	1.1.	32.2	27.6	30.9	50.9	57.3	37.6	42.9	48°3	50.6	6.64	41.6	17.0	60.7	56.2	43.9	46.7	46.1	33.5	40.9	51.3	149.5	42.1	29.7	31.5	34.5	22.7	21.2	15.3	25.3	22.7
91	18.4	22.9	4.49	55.3	61.8	101.9	114.7	75.3	85.9	96.6	101.2	8.66	83.3	93.9	121.3	112.3	87.9	4.66	92.2	0.70	81.8	102.6	0.66	84.2	20.69	65.9	68.9	45.3	42.3	30.7	20.7	45.4	54.3
5	28 °C	9.96	82.9	92.7	52.8	72°C	12.9	28.8	6.44	151.7	8°54	24.9	4C . 9	82.0	68.5	31.8	1.54	38 * 3	7.00	22.6	53.9	48.4	26.4	89.2	4.46	03.4	0.99	63.5	46.0	2.07	68.1	81°4	1.1
	45.8	10.5	23.6	203.8	1 5.625	1 50.05	1 7.171	193.3 1	202.3 1	1 2.661	166.5 1	187.8	242.6 1	224.6 1	175.8 1	198.8 1	184.5 1	133.9 1	163,5 1	205.2 1	1 6.761	168.5 1	118.9 1	125.8	37.9	1 9.06	94.6	61.3	01.3	8.06	08.5	08.1	66.1
2	12.	Ξ	_			_						_					-					-		_	-				_		_	_	
13	161.1	154.5	254.7	286.6	188.2	214.7	241.6	252.9	249.6	208.2	234.8	303.3	280.8	219.7	248.5	23C.6	167.4	204.4	256.5	247.4	210.6	148.7	157.3	172.3	113.3	105.8	7.97	126.7	113.5	135.7	135.1	82.6	62.5
12	165.8	305.6	344.0	225.8	257.6	289.9	303.5	259.5	249.8	281.7	363.9	336.9	263.6	298.1	276.7	200.9	245.3	307.7	296.9	252.7	178.4	188.7	206.8	135.9	127.0	92.0	152.0	136.2	162.8	162.2	99.5	75.0	109.6
Ξ	216.3	4C1.3	263.4	3cc.6	338.2	354.1	349.5	291.4	328.7	424.6	393.1	307.6	347.8	322.8	234.4	286.2	359°C	346.4	254.8	208.2	220.2	241.3	158.6	148.1	107.4	177.3	159.0	150.0	189.2	115.7	87.5	127.9	181.2
2	2.704	301.1	343.5	386.5	9.404	399.4	333.1	375.6	485.2	449.2	351.5	357.5	368.9	267.9	327.1	410.3	395.8	337.C	237.9	251.6	275.7	181.2	169.3	122.7	202.6	181.7	217.1	216.2	132.2	100.0	146.2	207.1	229.7
6	516.0	386.4	434.8	455.2	449.3	374.7	422.6	545.9	5 C5 . 4	395.5	447.2	415.0	301.3	367.9	461.6	445.3	379.1	267.6	283.1	310.2	203.9	190.4	138.0	228.0	204.4	244.2	243.2	148.8	112.4	164.4	233.0	258.4	137.2
æ	376.3	483.1	505.8	499.2	416.3	469.5	6.6.5	561.6	4.954	496.9	461.2	334.8	408.8	512.9	8.464	421.2	297.4	314.5	344.7	226.6	211.6	153.4	253.3	227.1	271.4	270.3	165.3	124.9	182.7	258.9	287.1	152.4	132.1
~	37.63	48.31	50.58	49.52	11.63	46.95	50.65	56.16	43.54	69.64	46.12	33.48	40.88	51.29	84.64	42.12	29.74	31.45	34.47	22.66	21.16	15.34	25.33	22.71	27.14	27.C3	16.53	12.49	18.27	25.89	28.71	15.24	13.21
•0	17.62	18.23	21.26	21.61	16.41	19.71	25.78	26.08	18.43	19.44	21.65	17.49	21.61	19.69	19.10	17.58	12.10	72.6	10.73	8.69	8.65	8.36	13.84	11.43	9.11	7.61	6.97	71.7	7.95	10.01	13.41	6.28	8 . 4 5
un.	15.04	15.58	16.04	16.06	16.76	17.05	17.22	17.29	18.07	18.78	17.69	17.84	18.42	19.45	19.53	19.61	20.41	21.66	21.80	21.40	22.43	21.52	20.56	22.40	23.28	23.26	22.94	22.88	23.77	24.14	23.26	24.37	23.32
3	20.0	30.1	29.3	28.3	25.2	27.2	34.9	30.1	25.5	30.3	24.5	16.0	19.3	31.6	30.4	24.5	17.6	21.7	23.7	14.0	12.5	7.0	11.5	11.3	18.0	19.4	9.6	5.3	10.3	15.8	15.3	0.6	fr • 8
м	14.74	14.16	15.04	15.22	15.58	16.04	16.06	16.76	17.05	17.22	17.29	18.07	18.78	17.69	17.84	18.42	19.45	19.53	19.51	20.41	21.66	21.80	21.40	22.43	21.52	20.96	22.40	23.28	23.26	22.94	22.88	23.77	24.14
2	17.69	8.42		19.53	19.51	20.41		21.80	21.40	22.43	21.52	20.96	22.40	23.28	23.26	22.94	22.88	23.77	24.14	23.26	24.37	23.32	23.86	24.96	25.40	25.03	24.54	24.52	25.66	26.57	26.38	25.90	25.29
		83150			13050	23150 2			33151	43051	53151	63051	73151	83151	93051	03151	13051	23151	13152	22852	33152	43052	53152	63052	73152	83152	93052	03152	13052	23152	13153	22853	33153



16	96.	. u	47.	23.	i	- 13	-23.	-28.	-23.	-18.	* **) 1	24.	*09	93.	143.	175.	220.	256.	305.	347.	383.	*634	414.	421.	419.	423.	442.	444	442.	427.	416.	4 C 7 *	379.
1.7	27.1	14.5	12.5	18.3	25.9	28.7	15.2	13.2	0.6	-1.C	-1.4	5.6	-11.5	-12.8	-6.3	-5.9	-4.8	2.3	1.8	11.5	24.3	36.3	36.7	58.3	51.3	62.2	63.8	84.6	84.6	88.0	84.6	1.69	75.2
16	54.1	25.0	36.5	51.8	57.4	30.5	26.4	18.1	-2.0	-2.9	5.2	-23.1	-25.7	-12.6	-11.8	-9.5	4.7	3.6	23.1	48.5	72.7	73.3	116.5	102.6	124.4	127.6	169.3	169.2	176.0	169.2	139.4	150.4	141.0
15	49.6		7.77	86.1	45.7	35.6	27.1	-3.0	-4.3	7.8	-34.6	-38.5	-18°C	-17.7	-14+3	7.0	5.5	34.6	72.8	109.0	110.0	174.8	154.0	186.6	191.4	253.9	253.7	264.1	253.9	209.1	225.6	211,5	234.2
<b>2</b>	50.0	103.6	114.8	61.0	52.8	36.1	-3.9	-5.8	10.4	-46.2	-51°#	-25.3	-23.7	-19.1	9.3	7.3	46.2	97.1	145.4	146.7	233.0	205.3	248.8	255.2	338.6	338.3	352.1	338.5	278.8	300.8	282.0	312.2	379.9
13	91.3	7.54.1	76.2	1.99	45.2	6.4-	-7.2	13.1	-57.7	-64.2	-31.6	-25.6	-23.8	11.7	1.5	57.7	121.4	181.7	183.3	291.3	256.6	311°C	319°C	423.2	422.9	440.1	423.1	348.5	376.C	352.5	390.3	474.9	407.3
12	155.3	01 1	79.3	54.2	-5.9	-8.7	15.7	-69.3	-77.1	-37.9	-35.5	-28.6	14.0	10.9	69.3	145.6	218.0	220.0	349.5	307.9	373.2	382.8	507.9	507.5	528.1	507.7	418.2	451.2	423.0	468.3	6*695	488.8	475.6
=	201.0	1.00	63.2	6.9-	-10.1	18.3	-80.8	-89.9	-44.3	-41.4	-33.4	16.3	12.7	80.8	169.9	254.4	256.€	8.704	359.3	435.5	9.944	592.5	592°C	616.1	592.3	487.9	526.4	493.5	546.4	6.499	570.3	554.9	459.2
20	121.9	7.5.7	-7.9	-11.6	20.9	-92.3	102.7	-50.6	-47.3	-38.2	18.7	14.6	92.4	194.2	290.7	293.3	0.994	410.6	1.254	510.4	677.2	9.919	704.1	6.919	9.155	7.109	264.0	624.5	759.9	8:159	634.1	524.8	538.7
•	118.9	2 0	-13.0	23.5	-103.9	-115.6	- 56.9 -	-53.2	-42.9	21.0	16.4	103.9	218.4	327.1	330.0	524.3	461.9	6*655	574.2	761.8	761.2	792.2	761.6	627.3	6.929	634.5	702.5	854.9	733.2	713.4	590.3	1.909	609.5
ω.	90.3	5.61	26.1	-115.4	-128.4 -	-63.2 -	-59.2	7.74-	23.3	18.2	115.5	242.7	363.4	366.6	582.5	513.2	622.1	638.0	846.5	845.8	880.2	846.2	0.769	752.1	705.0	780.6	6.646	814.7	792.7	6.55.9	673.4	677.2	471.8
~	9.03	66	2.61		-12.84 -	-6.32	-5.92	-4.77	2.33	1.82	11.55	24.27	36.34	36.66	58.25	51.32	62.21	63.80	84.65	84.58	88.02	84.62	07.69	75.21	70.50	78.06	66.46	81.47	79.27	65.59	45.79	67.72	47.18
•	3.19	1.68	-1.12		- 17.4-	-4.36	-6.81	-5.95	69.	3.40	9.42	15.16	20.92	18.02	32.42	27.75	31.66	27.95	38.01	37.96	40°08	36.45	29.44	30.04	29.78	32,87	45.89	33.64	37.85	23.66	26.49	24.16	19.21
u)	23.86	24.96	25.03	24.54	24.52	25.66	26.57	26.38	25.90	25.29	24.62	24.54	24.14	24.75	23.32	23,35	24.54	24.76	24.81	26.08	26.15	26.94	28.26	29.19	29.21	30.88	29.83	32,31	31.68	34.24	35.98	36.63	36.76
æ	8.8	. ,	3.7	9.9-	-8.1	-2.0	6.	1.2	1.6	-1.6	2.1	9.1	15.4	18.6	25.8	23.6	30.5	35.8	9.94	9 * 9 4	47.9	48.2	40.3	45.2	1.04	45.2	49.1	47.8	41.4	41.9	6.04	43.6	28.0
m	23.26	24.37	23.86	24.96	25.40	25.03	24.54	24.52	25.66	26.57	26.38	25.90	25.29	24.62	24.54	24.14	24.75	23.32	23.35	24.54	24.76	24.81	26.08	26.15	26.94	28.26	29.19	29.21	30.88	29.83	32,31	31.68	34.24
7			24.75				24.76		26.08	26.15	26.94	28.26	29.19	29.21	30.88	29.83	32,31	31.68	34.24	35.98	36.63	36.76	36.58	37.96	37.91	41.03	43.52	43.18	43.67	42.34	45.51	45.48	43.82
-	43053	53153	73153	83153		103153	113053	123153	13154	22854	33154	43054	53154	63054	73154	83154	93054	103154	113054	123154	13155	22855	33155	43055	53155	63055	73155	83155	93055	103155	113055	123155	13156



16	256.	336.	303.	273.	262.	234.	196.	159.	125.	109.	17.	3.5 °	15.	9	1	-13*	- 6 .	-10.	-3C-	-46.	-61.	-15.	-16.	-86.	- 8 B	-63-	-76.	-68*	- 4 6 "	-23*	13.	54.	107.
11	70.5	95.0	81.5	75.3	65.6	67.3	67.7	47.2	5 C . C	6C.1	59.2	33.7	31.7	1040	24.6	11.3	5.7	2.3	16.7	-3.1	-15.6	-E.2	2.1	-1.2	-6.2	6.8	0.4-	-21.0	-22.5	-18.6	-22.8	-11.1	-15.9
91	156.1	162.5	158.5	131.2	134.7	135.4	4.46	6.66	120.1	118.5	67.5	63.3	89.3	49.2	22.€	11.4	4.7	33.5	-6.2	-31.3	-16.3	4.2	-2.4	-12.4	13.7	-8.0	-42.1	-45.0	-37.2	-45.7	-22.2	-39.6€-	-27.6
15	285.C	237.8	196.8	202.0	203.2	141.6	145.9	180.2	177.7	101.2	0.56	134 °C	73.8	33.9	17.1	7 ° C	5c.2	-6.3	-46.9	-24.5	6.2	-3.6	-18.5	2C.5	-12.C	-63.1	-67.5	-55.8	-68.5	-33,3	-59.7	-41.5	-24.0
7	325.9	262.4	269.4	270.9	188.7	199.8	240.3	236.9	134.9	126.7	178.7	98.3	45.3	22.8	4.6	64.3	-12.4	-62.6	-32.7	8.3	7 - 4-	-24.7	27.4	-16.0	-84.2	0*06-	4.47-	-91.4	4.44-	9.61-	-55.3	-32.0	-27.9
13	296.3	336.7	338.6	235.9	245.8	30C • 3	296.1	166.6	158.3	223.3	122.9	56.6	28.6	11.7	83.7	-15.5	-78.2	-4C.E	10.4	6.5-	-30.9	34.2	-2c.1	-105.2	-112.5	-93.1	-114.2	-55.5	9.56-	1.69-	7 C - C	-34.8	4 03 03 6 03 6 03
12	353.6	404.0	263.1	255.8	360.4	355.4	202.4	190.0	268.0	147.5	61.9	34.3	14.1	100.4	-19.6	-63.9	0.64-	12.5	-7-1	-37.1	41.0	-24.1	-126.3	-135.0	-1111-7	-137.0	9*99-	-119.4	-82.9	-48 C	-41.8	0*01-	23.1
Ξ	471.4	330.3	7.645	420.4	414.6	236.1	221.6	312.6	172.1	79.2	0°04	16.4	117.1	-21.7	-109.5	-57.1	14.5	-8.3	-43.2	6.54	-28.1	-147.3	-157.5	-130.3	-159.9	-77.7	-139.3	1.95-	0.95-	-48.8	7.04-	27.C	93.€
21	541.8	399.7	480.5	473.8	269.8	253.3	357.3	196.7	90.5	45.7	18.8	133.8	-24.8	-125.2	-65.3	16.6	-5.5	4.64-	54.7	-32.1	-168.4	-179.5	-148.9	-182.7	-88.8	-159.2	-110.5	-64.0	-55.8	-53.3	30.8	106.9	211.3
6	424.7	540.6	533.1	303.6	285.0	402.0	221.3	101.8	51.4	21.1	150.6	-27.9	-14C.8	-73.5	18.7	-10.7	-55.6	61.5	-36.1	-189.4	-202-4 -	-167.5	-205.6 -	6*66-	-179.1	-124.4	-72.0 -	-62.7	0-09-	34.7	120.3	237.7	328.9
æ	9.554	592.3	337.3	316.6	446.6	245.9	113,1	57.1	23.5	167.3	-31.0	-156.5	-81.6	20.8	-111.9	-61.8	68.4	-40.1	-210.5	-224.9	-186.1	-228.4	-1111.0	-1991-	-138.2	-8C.0	-69.7	-66.7	38.5	133.7	264.1	365.5	545.5
-	95.64	59.23	33.73	31.66	99.11	24.59	11.31	5.71	2.35	16.73	-3.10	-15.65	-8.16	2.08	-1.19	-6.18	6.84	- 4 . Cl	-21.05	-22.49	-18.61	-22.84	-11.10	-19.61-	-13.82	-8.CC	-6.97	-6.67	3.85	13.37	26.41	36.55	54.95
9	23.95	27.62	10.16	7.93	14.38	8.79	1.11	.15	88	6.50	-1.37	10.77	-8.83	1.19	.98	50°4-	.84	29	-6.93	-8.92	10.01	10.58	-3.61	-7.41	-7.96	-8.41	-6.92	-5.57	4.36	12.56	21.92	23.03	31.23
us.	36.58	37.51	41.C3	43.52	43.18	43.67	42.34	45.51	45.48	43.82	45.34	84.84	48.38	45.20	16.97	62.64	47.51	45.35	45.58	45.CB	- 19.64	44.72	43.26	44.11	45.74	47.43	47.37	47.91	45.22	42.42	41.06	41.72	39.59
4	26.0	31.6	23.6	23.7	30.3	15.8	4.2	5.6	3.2	10.2	-1.7	6.4-	٠.	6.	-2.2	-2.1	0.9	-3.7	-14.1	-13.6	-8.0	-12.3	-7.5	-12.5	-5.9	77.	0	-1:1	5	8	4.5	13.5	23.7
m	35.98	36.65	36.58	37.96	37.91	41.03	43.52	43.18	43.67	42.34	45.51	45.48	43.82	45.34	84.84	48.38	45.20	16.94	49.39	47.51	45.35	45.58	45.08	19.94	44.72	43.26	44.11	45.74	47.43	47.37	47.91	45.22	42.42
2	45.34	48.48	45.20	16.97	49.39	47.51	45.35	45.58	45.08	10.67	44.72	43.26	44.11	45.74	47.43	47.37	47.91	45.22	42.42	41.06	41.72	39.99	41.70	48.04	42.10	43.44	60.44	45.24	47.19	47.75	50.06	51,33	52.48
-	22856	33156	53156	63056	73156	83156	93056	103156	113056	123156	13157	22857	33157	43057	53157	63057	73157	83157	93057	103157	113057	123157	13158	22858	33158	4 3058	53158	63058	73158	83158	93058	103158	113058



16	166.	218.	263.	291.	323.	34.55	350.	356.	344.	£12°	281.	246.	217.	176.	136.	. 36.	58	32.	1 C .	-12.	-16	-36.	-56.	159	-45.	-21.	ę,	45°	78.	110.	135.	158.	186.	205.
17	-13.8	-8 °C	-7.C	-6.7	3.5	13.4	26.4	36.5	54.5	6009	68.5	70.2	9.39	11.6	1.69	56.5	0 * 49	5 C + B	31.3	30.1	22.0	24.7	6 .3	2 . 9	-4.	-6.2	-3.8	-7.1	12.3	-2.4	-18.5	-18.8	9.5-	5 . 5
9	-16.0	13.9	-13.3	7.7	26.7	52.8	73.1	6.60	33.7	37.1	40.3	121.1	143.3	38.2	117.C	127.9	9.10	62.7	60.1	0.44	9°64	12.7	5.7	-8.1	18.4	-7 . t	.14.2	24.5	- 6 - 41 -	-37.0	37.6 -	-19.2 -	11°C	32.2
15	-20.9	-20°c -	11.6	40.1	75.2	9.601	164.8	2000	205.6	210.5	181.7	214.9 1	2C7.3 1	175.5 1	191.9	152.4	94°C	90.2	6.59	74.2	19.0	8.6	-12.2	-27.7	-11.4 -	-21.3	-36.8 -	-7.3 -	.55.5	- 56.4 -	- 56.92-	16.6 -	16.3	61.7
77	-26.7	15.4	53.5	9.501	146.2	219.8	267.4	274.2	280.7	242.3	286.5	276.4	234.0	255.9	203.2	125.4	120.3	61.9	0.66	25.3	11.5	-16.2	-36.9	-15.2	-28.4	-49.1	- 8.6-	-74.0	-75.2	-38.5	22.1	1 ° 17 9	82.3	9.94
13	19.3	8.99	132.C	182.7	274.7	33403	342.7	350.9	302.9	358.2	345.5	292.5	319.8	254.0 2	156.7	150.3	6.601	123.7	31.6	14.4	-20.3	-46.1 -	-16.1-	-35.5	-61.3	-12.2	-92.5	- J. 46.	-48.1 -	27.6 -	80.5	102.E	83.3	166.8
12	80.2	158.4	219.3	329.7	401.2	411.2	421°C	363.4	429.8	414.5	351.0	383.8	304.8	188.1	180.4	131.9	. 5.841	38.0	17.2	-24.3	-55.3	-22.9 -	-42.6	-73.6 -	-14.7 -	- 0*111	- 6.211	- 57.72	33.1	5.95	123.4	6.619	1.002	223.3
=	184.8	255.8	384.6	0.834	8.621	151.2	424.0	501.4	483.6	1 6.60 1	8"17"	355.6	219.4	210.5	153.9	173.2	44.3	20.1	-28.4	-64.6	-26.7 -	- 40.7	- 65.9	-17.1	129.5 -	131.7 -	-67.3 -	38.6	12.6	144°C	256.6	233.5	260.5	247.4
10	292.4	9.624	534.9	548.3	561.4	9.484	573.1	552.7	10.894	5111.7	406.4	8*052	240.5	175.8	6.761	9.05	23°C	-32.4	-73.E -	-30.5	-56.8	- 1.86-	-19.5	148°C	150.5 -	- 0.77-	44.2	128.7	164.5	293.2	8.992	297.7	282.7	294.3
6	94.5	1.109	6.919	631.6	545.2	2.449	621.8	526.5	575.7	457.2	282.1	270.6	8.761	222.7	6*95	25.9	-36.5	-83.0	-34.3	-63.9	110.4	-22.0	166.6	-169.3 -	-86.6-	49.7	144.8	185.1	329.9	300.2	334.9	318.0	331.0	421.0
αυ	9.899	685.4	7.107	7.509	716.3	6.069	585.0	9*629	508.0	313.5	300.6	219.8	247.4	63.3	28.7	-40.5	-92.2	-38.1	-71.0	122.6	- 4.45-	-185.1	-188.1 -	- 96.2 -	55.2	160.9	205.6	366.5	333.6	372.1	353.4	367.8	1.67.7	452.0
~	98.99	45.89	70.17	60.57	71.63	60°69	58.50	63.56	50.80	31.35	30.06	21.58	24.74	6.33	2.87	- 4 . C5	-9.22	-3.81	-7.10	-12.26 -	-2.44	-18.51 -	-18.81 -	-9.62	5.52	16.09	20.56	36.65	33.36	37.21	35.34	36.78	146.77	45.2C
•	32.40	35.70	31.62	27.62	30.62	29.71	23.90	26.72	19.06	10.81	39.6	5.56	8.07	.36	1.23	-3.91	-7.34	-4.52	-5.93	-6.86 -	. 14	-6.95 -	-8.39 -	-7.26	14.50	10.09	14.64	19.66	16.98	16.91	16.45	17.21	27.19	24.99
w1	41.70	40.84	42.10	43.44	60.44	45.24	47.19	47.75	90.08	51.33	52.48	55.21	55.42	55.41	55.44	57.59	58,68	58.47	60.51	59.60	56.88	57.52	58.28	68 * 69	55.61	56.12	55.34	54.37	55.83	56.92	55.51	96.99	53.52	53.39
3	34.5	32.8	38.6	32.9	41.0	39.4	34.6	37.2	31.7	20.5	20.5	16.4	16.7	0.9	1.6		6*1-	٠.7	-1.2	-5 a 44	-2.6	-11.6	-10.4	-2 + lt	1.0	0.9	5.9	17.0	16.4	20.3	18.9	19.6	19.6	20.2
м	41.06	41.72	39.99	41.70	40°84	42.10	43.44	60 " 44	45,24	47.19	47.75	90.05	51,33	52.48	55.21	55.42	55.41	55.44	57.59	58.68	58.47	60.51	. 09*69	56.88	57,52	58.28	59.89	55.61	56.12	55.34	54.37	55.83	56.92	55.51
2	55.21	55.42	55.41	55.44	57.59	58.68	58.47	60.51	59.60	56.88	57.52	58.28	59.89	55.61	56.12	55.34	54,37	55.83	56.92	55.51	96.95	53.52	53.39	55.54	58.11	61.78	63.44	65.06	65.31	66.56	19.19	66.76	68.07	66.73
-	123158	13159	22859	33159	4 30 59	53159	63029	73159	83159	93059	103159	113059	123159	13160	22860	33160	43060	53160	63060	73160	83160	93060	103160	113060	123160	13161	22861	33161	4 3061	53161	63061	73161	83161	93061



92	218.	235.	249.	24C.	226.	2C 4 *	165.	113.	4 B.	-1:	-36.	-16.	-117.	-127.	-130.	-124.	-120.	-88-	-58.	-11-	26.	65.	126.	166.	153.	217.	234.	242.	243.	236.	225.
17	16.1	20.6	36.7	33.4	37.2	35.3	36.8	46.8	45.2	44.0	56.0	9.54	32.5	27.9	16.1	6.	-16.1	-34+2	-27.C	-19.9	-33.7	-37.7	-15.7	-16.4	-12.6	-17.7	-1.3	16.8	31.1	25.5	32.9
92	-	73.3	66.7	74.47	70.7	73.6	93.5	4.06	88.0	112.0	7.66	64.9	55.8	38.1	1.7	-32.2	-68.3	-53.9	-39.9	4.76-	-75.4	ħ°6€-	-32.8	-25.1	-35.4	-2.5	33.7	62.2	50.9	65.7	122.5
15	110.0	100.1	111.6	106.0	110.3	140.3	135.6	132.1	168.0	149.5	97.4	83.8	57.2	2.6	-48.3	-102.5	-80.9	-59.8	-101-	-113.2	-59.0	-45.1	-37.7	-53.1	-3.8	50.5	93.3	76.4	86.6	183.8	150.0
2	133.4	148.8	141.3	147.1	187.1	180.8	176.1	224.0	199.3	129.8	111.7	76.3	3.4	4.49-	-136.6	-107.9	-79.8	-134.8	-150.9	-78.7	-65.5	-50.2	-70.8	-5.0	67.3	124.4	101.8	131.5	245.1	200.0	176.2
13	186.1	176.7	183.9	233.9	226.C	220.1	280.0	245.1	162.3	139.6	95.3	E . 3	-80.5	-170.8	-134.9	1.66-	-168.6	-188.6	4.86-	-81.9	-62.8	-88.5	-6.3	84.1	155.6	127.3	164.3	306.3	25C.C	220.3	231.C
12	212.0	220.7	280.6	271.2	264.1	335.9	299.0	194.8	167.5	114.4	5.1	9.96-	-205.0	-161.8	-119.7	-202.3	-226.3 -	-118.1 -	-98.3	-75.3	-106.3	-7.6	101.0	186.7	152.8	197.2	367.6	299.9	264.4	277.2	276.3
Ξ	257.5	327.4	316.4	308.1	351.9	348.8	227.2	195.5	133.5	0.0	-112.7	-239.1	-188.8 -	-139.6 -	-236.0 -	-264°C -	-137.8 -	-114.7 -	-87.9	-124.0	-8.8	117.8	217.8	178.2	230.0	428.8	349.9	308.4	323.4	322.4	305.0
01	374.2	361.6	352.2	6.744	398.6	259.7	223.4	152.6	6.8	-128.8	-273.3 -	-215.8 -	-159.6 -	- 269.7 -	-301.8	- 157.5 -	-131.1 -	- 100.4 -	-141-7	-10.1-	134.6	248.9	203.7	262.9	1.064	399.9	352.5	369.6	368.4	348.6	321.3
•	4 06 . 8	396.2	503.9	448.5	292.1	251.3	171.6	7.7	-144.9	-307.4 -	-242.7 -	-179.5 -	-303.4 -	-339.5 -	-1771-	-147.4-	-113.0 -	-159.4 -	-11.3 -	151.4	280.0	229.2	295.8	551.4	6.644	396.5	415.7	414.5	392.1	361.5	318.6
œ	440.2	6.655	498.3	324.6	279.2	190.7	8.5	-161.0	-341.6 -	-269.7 -	- 199.4 -	-337.1 -	-377.2 -	-196.8 -	-163.8 -	-125.5 -	-1771-	-12.6 -	168.3	311.1	254.6	328.6	612.6	6.664	9.044	461.9	9.094	435.7	401.7	354.0	358.3
7	4 4 . C2	55.99	49.83	32.46	27.52	19.07	• 85	-16.10 -	-34.16 -	- 76.92 -	-18.61-	-33.71 -	-37.72 -	-19.68 -	-16.38 -	-12.55 -	-17.71-	-1.26	16.83	31.11	25.46	32.86	61.26	66.64	44.06	46.19	90.94	43.57	40.17	35.40	35.63
•	23.55	22.73	15.81	15.8	7.53	64.9	-1.98	- 27.7-	- 17.99 -	- 94.41-	-11.40 -	-18.00 -	-20.75 -	-12.98 -	-8.34 -	-5.37 -	-7.56 -	2.04	17.06	29.32	19.13	16.93	28.84	26.86	18.87	16.05	13.32	19.83	16.87	14.58	12,23
٧n	55.54	58.11	61.78	63.44	92.59	65.31	95.99	49.49	- 92.99	- 10.89	- 67.99	68.62 -	71.32 -	71.55 -	48.89	96*69	69.55	45.24	59.63	54.75	58.23	59.12	56.27	56.52	62.26	63.10	66.20	64.29	46.57	09.69	70.80
z	20.5	33.3	34.0	23.9	20.4	12.6	2.8	-8.3	-16.2	-12.5	-8.5	-15.7	-17.0	1.9-	-8.0	-7.2	-10.1	-3.3	2	1.8	6.3	15.9	32.4	23.1	25.2	30.1	32.7	23.7	23.3	20.8	23.6
м	96.99	53.52	53,39	55.54	58.11	61.78	44.59	90.59	65.31	. 95.99	49.49	66.76	68.07	66.73	68.62	71.32	71.55	48.89	96.69	69.55	65.24	59.63	54.75	58.23	59.12	56.27	56.52	62.26	63.10	66.20	64.29
2	68.62	71.32	71.55	48.89	96.69	69.55	65.24	59.63	54.75	58.23	59.12	56.27	56.52	62.26	63.10	66.20	64.29	66.57	69.80	70.80	69.37	69.13	72.50	71.70	74.01	73.23	75.02	77.04	77.80	79.98	79.46
-	103161	113061	123161	13162	22862	33162	43062	53162	63062	73162	83162	93062	103162	113062	123162	13163	22863	33163	43063	53163	63063	73163	83163	93063	103163	113063	123163	13164	22864	33164	43064

```
PROGRAM DSRIVEX
DRIVENSION DATE (900), DJI(900), SIPRE 900), ITTILE(12), SP10 (900), DISPE
1900), DISPE (900), NJ (900), NJ (900), NJ (900), NJ (900), DISPE (900
49
52
33
25
                       5
```



DATE	EJI	STPR	ГЅРХ
13148	175.05	14.69	28.15
22848	167.30	14.00	27.30
33148	177.20	15.08	26.40
43048	180.51	15.48	25.71
52848	190.74	16.69	23.84
63048	189.46	16.74	22.C6
73048	181.33	15.85	22.83
83148	181.71	15.97	22.01
93048	178.30	15.49	23.4C
10 3 C 4 8	188.62	16.54	23.22
113048	171.20	14.75	23.70
123148	177.3C	15.20	25.30
13149	175.12	15.22	26.92
22849	173.06	14.62	26.86
3 3 1 4 9	177.10	15.06	26.50
43049	174.16	14.74	26.76
53149	168.36	14.19	26.46
63049	167.42	14.16	25.82
72949	175.92	15.C4	25.52
8 3 1 4 9	178.66	15.22	26.46
93049	182.51	15.58	26.71
10 3 1 4 9	189.54	16.C4	29.14
113049	191.55	16.06	3C.95
12 3 1 4 9	200.13	16.76	32.53
13150	201.79	17.05	31.29
2285C	203.44	17.22	31.24
33150	206.05	17.29	33.15
4295C	214.33	18.07	33.63
53150	223.42	18.78	35.62
63050	209.11	17.69	32.21
7315C	209.40	17.84	31.00
8315C	216.87	18.42	32.67
92950	226.36	19.45	31.86



DATE	Cli	STPR	ESPX
10 3 1 5 0	225.01	19.53	29.71
113050	22 <b>7.6</b> 0	19.51	32.50
12 3 0 5 0	235.41	20.41	31.31
13151	248.83	21.66	32.23
2 2 8 5 1	252.05	21.80	34.05
3 3 1 5 1	247.94	21.4C	33.94
43051	259.13	22.43	34.83
53151	249.65	21.52	34.45
62951	242.64	20.96	33.04
73151	257.86	22.4C	33.86
8 3 1 5 1	270.25	23.28	37.45
92851	271.16	23.26	38.56
10 3 1 5 1	262.35	22.54	32.95
11 3051	261.27	22.88	32.47
12 3 15 1	269.23	23.77	31.53
13152	270.69	24.14	29.29
22952	260.08	23.26	27.48
33152	269.46	24.37	25.76
43C52	257.63	23.32	24.43
52952	262.94	23.86	24.34
63052	274.26	24.96	24.66
73152	279.96	25.4C	25.96
8 2 9 5 2	275.C4	25.C3	24.74
93052	270.61	24.54	25.21
10 3 15 2	269.23	24.52	24.03
11 2852	283.06	25.66	26.46
12 3 1 5 2	291.90	26.57	26.20
1 3 0 5 3	289.77	26.38	25.97
22753	284.27	25.90	25.27
3 3 1 5 3	279.84	25.29	26.94
43053	274.75	24.62	28.55
52953	272.28	24.54	26.88
63053	268.26	24.14	26.86
7 3 1 5 3	275.38	24.75	27.88



DATE	£11	STER	CSPX
93153	251.22	23.32	18.02
93053	264.04	23.35	30.54
103053	275.81	24.54	30.41
11 3 0 5 3	281.37	24.76	33.77
12 3 15 3	280.90	24.81	32.80
12954	292.39	26.08	31.59
22654	294.54	26.15	33.04
33154	303.51	26.94	34.11
43054	319.33	28.26	36.73
52854	327.49	29.19	35.59
63054	333.53	29.21	41.43
73054	347.92	30.08	39.12
3 3 1 5 4	335.80	29.83	37.5C
93054	360.46	32.31	37.36
102954	352.14	31.68	35.34
113054	386.77	34.24	44.37
12 3 1 5 4	404.39	35.98	44.59
13155	408.83	36.63	42.53
22855	411.87	36.76	44.27
33155	409.70	36.58	43.90
42953	425.65	37.96	46.C5
5 3 1 5 5	424.86	37.91	45.76
63055	451.38	41.03	41.08
72955	465.85	43.52	30.65
93155	468.18	43.18	36.38
93055	466.62	43.67	29.92
10 3 1 5 5	454.87	42.34	31.47
11 3 0 5 5	483.26	45.51	29.16
123055	488.4C	45.48	33.60
13156	47C.74	43.82	32.54
22956	483.65	45.34	3C.25
32956	511.79	48.48	26.99
43056	516.12	48.38	32.32
52956	477.68	45.2C	25.68

DATE	EJI	STFR	CSPX
52956	492.78	46.97	23.08
73156	517.81	45.35	23.91
83156	502.04	47.51	26.94
92856	475.25	45.35	21.75
10 3 1 5 6	479.85	45.58	24.05
11 3056	472.78	45.CE	21.98
12 3 1 5 6	455.47	46.67	32.77
13157	479.16	44.72	31.96
22857	464.62	43.26	32.02
32957	474.81	44.11	33.71
43057	494.36	45.74	36.96
52957	502.18	47.43	27.88
62857	503.29	47.37	29.59
7.3157	508.52	47.51	29.42
33057	484.35	45.22	32.15
93057	456.30	42.42	32.10
10 3 1 5 7	441.04	41.06	30.44
112957	449.87	41.72	32.67
12 3 1 5 7	435.69	39.99	35.79
13158	450.02	41.7C	33.02
22858	439.92	40.84	31.52
33158	446.76	42.1C	25.76
43058	455.86	43.44	21.46
52958	462.7C	44.CS	21.80
63058	478.18	45.24	25.78
73158	502.99	47.19	31.09
82958	508.63	47.75	31.13
93058	532.00	50.C6	31.40
103158	543.22	51.33	29.92
11 2858	557.46	52.48	32.66
12 3 1 5 8	583.65	55.21	31.55
13059	593.96	55.42	39.76
22759	6C3.50	55.41	49.40
33159	611.93	55.44	57.53

DATE	Eni	STPR	CSFX
43059	623.75	57.59	47.85
52959	643.79	58.68	56.99
63059	643.6C	58.47	58.90
73159	674.88	60.51	69.78
83159	652.18	59.6C	56.18
93059	631.68	56.88	62.88
103059	646.60	57.52	71.40
11 3059	659.18	58.28	76.38
12 3 1 5 9	679.36	59.89	8C.46
12960	622.62	55.61	66.52
22560	630.12	56.12	68.92
33060	619.94	55.34	66.54
4296C	6C1.7C	54.37	58.00
53160	625.5C	55.83	67.20
63060	64C.62	56.92	71.42
72960	616.73	55.51	61.63
83160	625.99	56.96	56.39
93C6C	58C.14	53.52	44.94
10 3 1 6 C	580.36	53.39	46.46
11 3 C 6 C	597.22	55.54	41.82
12 3 C 6 C	615.89	58.11	34.79
13161	648.20	61.78	30.40
22861	662.08	63.44	27.68
33061	676.63	65.06	26.03
42861	678.71	65.31	25.61
53161	696.72	66.56	31.12
63061	683.96	64.64	37.56
73161	705.37	66.76	37.77
83161	719.94	68.C7	39.24
92561	701.21	66.73	33.91
10 3 1 6 1	703.92	68.62	17.72
11 3061	721.60	71.32	8.40
122961	731.14	71.55	15.64
13162	694.09	68.84	5.69



DJI	STPR	CSPX
708.05	69.96	8.45
706.95	69.55	11.45
665.33	65.24	12.93
613.36	59.63	17.06
561.28	54.75	13.78
597.93	58.23	15.63
609.18	59.12	17.98
574.12	56.27	11.42
589.77	56.52	24.57
649.30	62.26	26.70
652.10	63.10	21.10
682.85	66.20	20.85
662.94	64.29	20.04
582.52	66.57	16.82
717.70	69.80	19.70
726.96	70.80	18.96
706.88	69.37	13.18
695.43	69.13	4.13
729.32	72.50	4.32
737.79	71.70	20.79
755.23	74.01	15.13
750.52	73.23	18.22
762.95	75.C2	12.75
784.35	77.C4	13.95
800.14	77.80	22.14
813.29	79.98	13.49
810.63	79.46	16.03
	708.05 706.95 665.33 613.36 561.28 597.93 609.18 574.12 589.77 649.30 652.10 682.85 662.94 582.52 717.70 726.96 706.88 695.43 729.32 737.79 755.23 750.52 762.95 784.35 800.14	708.05 69.96 706.95 69.55 665.33 65.24 613.36 59.63 561.28 54.75 597.93 58.23 609.18 59.12 574.12 56.27 569.77 56.52 649.30 62.26 652.10 63.10 682.85 66.20 662.94 64.29 562.52 66.57 717.70 69.80 726.96 70.80 726.96 70.80 726.98 69.37 695.43 69.13 729.32 72.50 737.79 71.70 755.23 74.01 750.52 73.23 762.95 75.02 764.95 75.02 764.35 77.04 800.14 77.80 813.29 79.98

```
CBLALPH
          12), X(900), ADJI(900)
2
```



DATE	SGLEXP	DJI	CBLEXP
83060	634.38	626.4C	634.46
83160	634.30	625.99	634.46
90160	634.21	626.1C	634.46
90260	634.12	625.22	634.45
90660	633.99	620.85	634.45
90760	633.77	612.27	634.44
90860	633.55	611.42	634.43
90960	633.36	614.12	634.42
91260	633.12	609.35	634.41
91360	632.90	611.79	634.39
91460	632.63	605.69	634.38
91560	632.33	602.69	634.35
91660	632.03	602.18	634.33
91960	631.58	586.76	634.30
92060	631.14	588.20	634.27
92160	630.77	594.26	634.24
92260	630.39	592.15	634.20
92360	629.94	585.2C	634.16
92660	629.41	577.14	634.11
92760	628.86	574.81	634.06
92860	628.26	569.08	634.00
92960	627.69	57C.59	633.94
93060	627.21	580.14	633.87
100360	626.72	577.81	633.80
100460	626.18	573.15	633.72
100560	625.71	578.88	633.64
100660	625.29	583.69	633.56
100760	624.90	586.42	633.47
101060	624.52	587.31	633.38
10 1 1 6 0	624.17	588.77	633.29
10 1 2 6 0	623.78	585.83	633.19
10 1 3 6 0	623.46	591.49	633.10

SGLEXP	DJI	CBLEXP
623.19	596.48	633.00
622.89	593.34	632.90
622.55	588.75	632.79
622.20	587.C1	632.69
621.80	582.69	632.58
621.36	577.55	632.47
620.86	571.93	632.35
620.32	566.C5	632.23
619.86	575.18	632.11
619.48	580.95	631.98
619.06	577.92	631.85
618.67	580.36	631.72
618.34	585.24	631.58
618.04	588.23	631.45
617.76	590.82	631.31
617.55	596.07	631.17
617.35	597.63	631.04
617.20	602.25	630.90
617.15	612.01	630.76
617.06	608.61	630.62
616.94	604.8C	630.49
616.84	606.87	630.35
616.72	604.77	630.21
616.57	602.18	630.08
616.44	603.62	629.94
616.32	604.54	629.80
616.17	601.1C	629.67
616.03	602.47	629.53
615.94	606.47	629.40
615.83	605.43	629.26
615.70	602.4C	629.12
615.61	607.22	628.99
615.40	594.56	628.85
615.21	596.CC	628.72
	623.19 622.89 622.55 622.20 621.80 620.86 620.86 620.32 619.86 619.48 619.06 618.67 618.34 618.04 617.76 617.55 617.20 617.15 617.20 617.15 617.06 616.94 616.84 616.72 616.57 616.44 616.32 616.17 616.03 615.94 615.83 615.70 615.61 615.40	623.19

DATE	SGLEXP	DJI	CBLEXP
120560	614.99	593.49	628.58
120660	614.81	597.11	628.44
12 0760	614.71	604.62	628.31
120860	614.62	605.17	628.17
120960	614.58	610.90	628.03
12 1 2 6 0	614.55	611.94	627.90
12 1 3 6 0	614.52	611.72	627.76
12 1 4 6 0	614.51	612.68	627.63
12 1560	614.47	610.76	627.50
12 1660	614.50	617.78	627.37
12 1 9 6 0	614.51	615.56	627.24
122060	614.51	614.82	627.11
122160	614.52	615.42	626.99
122260	614.51	613.31	626.86
122360	614.50	613.23	626.74
122760	614.49	613.38	626.62
122860	614.50	615.75	626.50
122960	614.52	616.19	626.38
12 3 0 6 0	614.53	615.89	626.26
10361	614.49	610.25	626.14
10461	614.56	621.49	626.02
10561	614.64	622.67	625.91
10661	614.71	621.64	625.80
10961	614.81	624.42	625.69
11061	614.92	625.72	625.58
11161	615.04	627.21	625.48
11261	615.17	628.5C	625.37
11361	615.36	633.65	625.27
11661	615.54	633.19	625.17
11761	615.67	628.96	625.08
11861	615.85	634.10	624.99
11961	616.02	632.39	624.90
12061	616.20	634.37	624.81
12361	616.44	639.82	624.73

DATE	SGLEXP	DJI	DELEXP
12461	616.66	638.79	624.65
12561	616.87	637.72	624.57
12661	617.09	638.87	624.49
12761	617.36	643.59	624.42
13061	617.69	650.64	624.36
13161	618.00	648.2C	624.29
20161	618.31	649.39	624.23
20261	618.66	653.62	624.18
20361	619.01	652.97	624.12
20661	619.27	645.65	624.08
20761	619.52	643.94	624.03
20861	619.81	648.85	623.99
20961	620.07	645.12	623.95
2 1 0 6 1	620.26	639.67	623.91
21361	620.43	637.C4	623.88
21461	620.65	642.91	623.85
21561	620.94	648.89	623.82
21661	621.25	651.86	623.79
21761	621.55	651.67	623.77
22061	621.87	653.65	623.75
22161	622.18	652.4C	623.73
22361	622.50	654.42	623.72
22461	622.83	655.6C	623.71
22761	623.21	660.44	623.71
22861	623.6C	662.08	623.71
30161	623.99	663.C3	623.71
30261	624.44	669.39	623.72
30361	624.91	671.57	623.73
30661	625.41	674.46	623.74
30761	625.83	667.14	623.77
30861	626.23	666.15	623.79
30961	626.60	663.33	623.82
31061	626.97	663.56	623.85
31361	627.35	664.44	623.88

DATE	SGLEXP	DJI	DBLEXP
31461	627.68	661.08	623.92
31561	628.04	662.88	623.96
31661	628.46	670.38	624.01
31761	628.94	676.48	624.06
32061	629.44	678.84	624.11
32161	629.93	678.73	624.17
32261	630.43	679.38	624.23
32361	630.88	675.45	624.30
32461	631.29	672.48	624.37
32761	631.69	671.03	624.44
32861	632.07	669.58	624.52
32961	632.51	676.41	624.60
33061	632.95	676.63	624.68
40361	633.40	677.59	624.77
40461	633.85	678.73	624.86
40561	634.29	677.32	624.95
40661	634.74	679.34	625.05
40761	635.23	683.68	625.15
41061	635.80	692.06	625.26
41161	636.38	694.11	625.37
41261	636.92	690.16	625.49
41361	637.47	692.02	625.61
41461	638.03	693.72	625.73
41761	638.62	696.72	625.86
41861	639.14	690.60	625.99
41961	639.61	686.21	626.13
42061	640.05	684.24	626.27
42161	640.51	685.26	626.41
42461	640.83	672.66	626.55
4 2 5 6 1	641.25	683.09	626.70
42661	641.66	682.18	626.85
42761	642.04	679.54	627.00
42861	642.40	678.71	627.16
50161	642.75	677.C5	627.31

DATE	SGLEXP	DJI	DBLEXP
50261	643.15	682.34	627.47
50361	643.60	688.9C	627.63
50461	644.09	692.25	627.8C
50561	644.56	690.67	627.96
50861	645.00	689.06	628.14
50961	645.42	686.92	628.31
51061	645.83	686.61	628.48
51161	646.24	686.49	628.66
51261	646.66	687.91	628.84
51561	647.11	692.37	629.02
51661	647.62	697.74	629.21
51761	648.20	705.52	629.40
5 1861	648.73	701.14	629.59
51961	649.30	705.96	629.79
52261	649.83	702.44	629.99
5 2 3 6 1	65C.34	700.59	630.19
52461	650.80	696.52	630.40
52561	651.19	690.16	630.61
52661	651.65	696.28	630.82
53161	652.10	696.72	631.03
60161	652.53	695.37	631.25
60261	652.98	697.7C	631.46
60561	653.49	703.43	631.68
60661	653.99	703.79	631.91
60761	654.46	700.86	632.13
60861	654.93	701.69	632.36
60961	655.39	700.90	632.59
61261	655.80	696.76	632.82
61361	656.19	694.15	633.06
61461	656.58	695.81	633.29
61561	656.93	691.27	633.53
6 1661	657.22	685.5C	633.76
61961	657.45	680.68	634.00
62061	657.75	687.87	634.24

DATE	SGLEXP	DJI	DBLEXP
62161	658.04	686.09	634.48
62261	658.31	685.62	634.72
62361	658.62	688.66	634.95
62661	658.84	681.16	635.19
62761	659.09	683.88	635.43
62861	659.35	684.59	635.67
62961	659.57	681.95	635.91
63061	659.82	683.96	636.15
70361	660.12	689.81	636.39
70561	660.44	692.77	636.63
70661	660.78	694.27	636.87
70761	661.10	692.73	637.11
71061	661.42	693.16	637.36
71161	661.75	694.47	637.60
71261	662.C4	690.79	637.84
71361	662.28	685.90	638.09
71461	662.57	690.95	638.33
71761	662.79	684.59	638.58
71861	662.95	679.30	638.82
71961	663.15	682.74	639.07
72061	663.35	682.57	639.31
72161	663.54	682.81	639.55
72461	663.73	682.14	639.79
72561	663.96	686.37	640.03
72661	664.26	694.19	640.28
72761	664.64	702.80	640.52
72861	665.05	705.13	640.77
73161	665.45	705.37	641.01
80161	665.94	713.94	641.26
80261	666.38	710.46	641.51
80361	666.88	715.71	641.77
80461	667.41	720.69	642.C2
80761	667.94	719.58	642.28
80861	668.46	720.22	642.54

DATE	SGLEXP	DJI	DBLEXP
80961	668.95	717.57	642.81
81061	669.46	720.49	643.07
81161	670.00	722.61	643.34
81461	670.49	718.93	643.61
81561	670.94	716.18	643.89
8 1661	671.42	718.20	644.16
81761	671.92	721.84	644.44
81861	672.44	723.54	644.72
82161	672.96	724.75	645.00
8 2 2 6 1	673.49	725.76	645.29
82361	673.96	720.46	645.57
82461	674.36	714.03	645.86
82561	674.78	716.7C	646.15
82861	675.19	716.01	646.44
82961	675.58	714.15	646.73
83061	676.00	716.90	647.03
90161	676.45	721.19	647.32
90561	676.87	718.72	647.62
90661	677.36	726.01	647.91
90761	677.85	726.53	648.21
90861	678.28	720.91	648.51
91161	678.64	714.36	648.81
9 1 2 6 1	679.08	722.61	649.12
91361	679.52	722.20	649.42
91461	679.87	715.00	649.73
91561	680.23	716.3C	650.03
91861	680.54	711.24	650.34
91961	680.76	702.54	650.64
92061	681.03	707.32	650.94
92161	681.28	706.31	651.25
92261	681.49	701.57	651.55
92561	681.59	691.86	651.85
92661	681.71	693.2C	652.15
92761	681.90	701.13	652.45

DATE	SGLEXP	DJI	DBLEXP
92861	682.08	700.28	652.74
92961	682.28	701.21	653.04
100261	682.45	699.83	653.33
10 0 3 6 1	682.61	698.66	653.63
100461	682.82	703.31	653.92
100561	683.08	708.49	654.21
100661	683.33	708.25	654.50
100961	683.55	705.42	654.79
101061	683.78	706.67	655.08
10 1 1 6 1	684.00	705.62	655.37
10 1 2 6 1	684.21	705.50	655.66
10 1 3 6 1	684.40	703.31	655.95
10 1 6 6 1	684.59	703.15	656.23
10 1761	684.77	701.98	656.52
10 1861	684.96	704.20	656.80
101961	685.16	704.85	657.09
102061	685.36	705.62	657.37
102361	685.50	698.98	657.65
102461	685.62	697.24	657.93
102561	685.77	700.72	658.21
102661	685.92	700.68	658.48
102761	686.05	698.74	658.76
103061	686.20	701.09	659.03
103161	686.37	703.92	659.31
110161	686.55	703.84	659.58
110261	686.75	706.83	659.85
11 0361	686.98	709.26	660.12
11 0661	687.25	714.60	660.39
11 0861	687.62	723.74	660.67
110961	687.96	722.28	660.94
11 1 0 6 1	688.33	724.83	661.21
11 1361	688.73	728.43	661.49
11 1461	689.17	732.56	661.77
11 1561	689.62	734.34	662.04

DATE	SGLEXP	DJI	DBLEXP
11 1661	690.06	733.33	662.32
11 1761	690.46	729.53	662.61
11 2061	690.85	730.09	662.89
112161	691.24	729.32	663.17
11 2261	691.63	730.42	663.46
11 2461	692.04	732.60	663.74
11 2761	692.44	731.99	664.03
11 2861	692.79	728.07	664.32
11 2 9 6 1	693.14	727.18	664.60
11 3 0 6 1	693.42	721.60	664.89
120161	693.78	728.80	665.18
120461	694.15	731.22	665.47
12 05 6 1	694.52	731.31	665.76
120661	694.88	730.09	666.05
120761	695.19	726.45	666.34
12 08 6 1	695.52	728.23	666.64
12 1 16 1	695.89	732.56	666.93
121261	696.28	734.02	667.22
12 1 3 6 1	696.66	734.91	667.52
12 1461	697.00	730.94	667.81
121561	697.33	729.40	668.11
121861	697.63	727.71	668.40
12 1 96 1	697.88	722.41	668.70
12 2 0 6 1	698.13	722.57	668.99
122161	698.35	720.10	669.28
122261	698.57	720.87	669.58
12 266 1	698.82	723.09	669.87
122761	699.14	731.43	670.16
122861	699.47	731.51	670.46
122961	699.78	731.14	670.75
10262	700.03	724.71	671.04
10362	700.29	726.01	671.33
10462	700.51	722.53	671.63
10562	700.66	714.84	671.92

DATE	SGLEXP	DJI	DBLEXP
10862	700.74	708.98	672.20
10962	700.81	707.64	672.49
11062	700.86	706.02	672.77
11162	700.96	710.67	673.06
11262	701.07	711.73	673.34
11562	701.15	709.54	673.61
11662	701.19	704.93	673.89
11762	701.19	700.84	674.16
11862	701.12	694.49	674.43
11962	701.09	697.77	674.70
12262	701.10	701.98	674.96
12362	701.07	698.54	675.22
12462	701.04	698.17	675.48
12562	701.00	696.52	675.74
12662	700.91	692.19	675.99
12962	700.80	689.92	676.24
13062	700.73	694.09	676.48
13162	700.72	700.00	676.73
20162	700.74	702.54	676.97
20262	700.80	706.55	677.20
20562	700.85	706.14	677.44
20662	700.95	710.39	677.68
20762	701.10	715.73	677.91
20862	701.25	716.82	678.14
20962	701.38	714.27	678.38
21262	701.52	714.92	678.61
21362	701.65	714.32	678.84
21462	701.77	713.67	679.07
21562	701.92	717.27	679.29
21662	702.07	716.46	679.52
21962	702.19	714.36	679.75
22062	702.32	715.55	679.98
22162	702.43	713.02	680.20
22362	702.50	709.54	680.42

DATE	SGLEXP	DJI	CELEXP
22662	702.54	706.22	68C.64
22762	702.58	706.22	680.86
22862	702.63	708.05	681.08
30162	702.72	711.81	681.30
30262	702.81	711.CC	681.51
30562	702.88	709.99	681.73
30662	702.93	708.17	681.94
30762	702.97	706.63	682.15
30862	703.08	713.75	682.36
30962	703.19	714.44	682.57
31262	7C3.3C	714.68	682.77
31362	703.44	716.58	682.98
31462	703.61	720.95	683.19
31562	703.81	723.54	683.39
31662	7C4.CO	722.77	683.6C
31962	704.16	720.38	683.80
32062	704.32	719.66	684.01
32162	704.44	716.62	684.21
32262	704.56	716.39	684.42
32362	704.68	716.46	684.62
32662	704.74	710.67	684.82
32762	704.77	707.28	685.02
32862	704.84	712.25	685.22
32962	704.93	713.34	685.42
33062	704.95	706.95	685.61
40262	704.95	705.42	685.80
40362	704.91	700.60	686.00
40462	704.83	696.88	686.18
40562	704.79	700.88	686.37
40662	704.74	699.63	686.55
40962	704.62	692.96	686.73
41062	704.53	695.46	686.91
41162	704.43	694.9C	687.09
41262	704.24	685.67	687.26

DATE	SGLEXP	DJI	DBLEXP
41362	704.08	687.90	687.43
41662	703.88	684.06	687.59
41762	703.72	688.43	687.75
41862	703.60	691.01	687.91
41962	703.50	694.25	688.07
4 2 3 6 2	703.42	694.61	688.22
42462	703.31	693.CC	688.37
42562	703.11	683.69	688.52
42662	702.82	673.68	688.66
42762	702.51	672.2C	688.80
43062	702.14	665.33	688.93
50162	701.83	671.24	689.06
50262	701.51	669.96	689.19
50362	701.25	675.49	689.31
50462	700.95	671.20	689.42
50762	700.65	670.99	689.54
50862	700.29	663.9C	689.64
50962	699.83	654.70	689.75
51062	699.30	647.23	689.84
51162	698.72	640.63	689.93
51462	698.19	646.20	690.01
51562	697.76	655.36	690.09
5 1662	697.33	654.C4	690.16
51762	696.85	649.79	690.23
5 1862	696.39	650.7C	690.29
52162	695.91	648.59	690.35
52262	695.32	636.34	690.40
52362	694.63	626.52	690.44
5 2 5 6 2	693.8C	611.88	690.47
52862	692.63	576.93	690.50
52462	691.93	622.56	690.51
52962	691.C5	603.96	690.51
53162	690.28	613.36	690.51
60162	689.48	611.05	690.50

DATE	SGLEXP	OJI	CBLEXP
60462	688.52	593.68	690.48
60562	687.59	594.96	690.45
60662	686.75	603.91	690.42
50762	685.91	602.20	690.37
60862	685.C6	601.61	690.32
61162	684.16	595.17	690.26
61262	683.13	580.94	690.19
61362	682.C4	574.C4	690.10
61462	68C.85	563.CC	690.01
61562	679.82	578.18	689.91
61862	678.77	574.21	689.80
61962	677.7C	571.61	689.68
62062	676.55	563.08	689.55
62162	675.29	550.49	689.40
62262	673.93	539.19	689.25
62562	672.56	536.77	689.08
62662	671.19	535.76	688.90
62762	669.85	536.98	688.71
62862	668.72	557.35	689.51
62962	667.65	561.28	688.30
70262	666.71	573.75	688.09
70362	665.84	579.48	687.87
70562	665.04	585.87	687.64
70662	664.15	576.17	687.40
70962	663.32	580.82	687.16
71062	662.54	586.C1	686.92
71162	661.81	589.06	686.66
71262	661.09	590.27	686.41
71362	660.38	590.19	686.15
71662	659.66	588.10	685.88
71762	658.84	577.85	685.61
71862	657.97	571.24	685.34
71562	657.12	573.16	685.05
72062	656.32	577.18	684.77

DATE	SGLEXP	110	CELEXP
72362	655.53	577.47	684.47
72462	654.72	574.12	684.18
72562	653.92	574.67	683.87
72662	653.17	579.61	683.57
72762	652.49	585.CC	683.26
73062	651.88	591.44	682.94
73162	651.34	597.93	682.63
30162	650.74	591.36	682.31
90262	650.17	593.83	681.99
80362	649.63	596.38	681.66
30662	649.07	593.24	681.34
80762	648.46	588.35	681.01
80862	647.89	590.94	680.68
80962	647.32	591.19	68C.34
81062	646.77	592.32	680.01
31362	646.26	595.29	679.67
8 1 4 6 2	645.81	601.90	679.33
91562	645.42	606.76	678.99
81662	645.03	606.71	678.65
8 1762	644.68	610.C2	678.31
82062	644.37	612.86	677.97
82162	644.01	608.64	677.63
82262	643.72	615.54	677.29
32362	643.45	616.CC	676.96
32462	643.15	613.74	676.62
82762	642.84	612.57	676.28
82862	642.47	605.25	675.94
82962	642.08	603.49	675.60
83C62	641.68	602.32	675.26
83162	641.36	609.18	674.93
90462	640.97	602.45	674.59
90562	640.55	599.14	674.25
90662	640.15	13.006	673.90
90762	639.76	60.86	673.56

DATE	SGLEXP	DJI	CBLEXP
91062	639.38	602.03	673.22
91162	639.03	603.99	672.88
91262	638.67	603.34	672.54
91362	638.32	603.99	672.20
91462	638.00	605.84	671.85
91762	637.69	607.63	671.51
91862	637.39	607.09	671.17
91962	637.09	607.09	670.83
92062	636.73	601.65	670.49
92162	636.28	591.78	670.15
92462	635.75	582.51	669.80
92562	635.27	588.22	669.46
92662	634.70	578.48	669.11
92762	634.10	574.12	668.76
92862	633.54	578.19	668.41
100162	632.92	571.95	668.C5
100262	632.38	578.73	667.70
100362	631.84	578.52	667.34
100462	631.35	582.41	666.98
100562	630.90	586.59	666.62
100862	630.45	586.C9	666.26
100962	63C.02	587.18	665.89
101062	629.60	588.14	665.53
10 1 1 6 2	629.17	586.47	665.17
10 1 2 6 2	628.74	586.47	664.80
10 1 5 6 2	628.35	589.69	664.44
10 1 6 6 2	627.96	589.35	664.07
10 1762	627.56	587.68	663.71
10 1862	627.10	581.15	663.34
10 1 9 6 2	626.56	573.29	662.97
102262	625.98	568.6C	662.60
102362	625.30	558.C6	662.23
102462	624.81	576.68	661.86
102562	624.27	570.86	661.48

DATE	SGLEXP	DJI	DBLEXP
102662	623.72	569.C2	661.10
102962	623.28	579.35	660.72
103C62	622.93	588.58	660.35
103162	622.60	589.77	659.97
110162	622.35	597.13	659.59
11 0262	622.17	604.58	659.22
11 0562	622.05	610.48	658.85
110762	621.99	615.75	658.48
110862	621.86	609.16	658.11
110962	621.80	616.13	657.75
11 1262	621.83	624.41	657.39
11 1 3 6 2	621.84	623.11	657.03
11 1462	621.93	630.48	656.68
11 1562	622.CC	629.14	656.34
11 1662	622.09	630.60	655.99
11 1962	622.13	626.21	655.66
11 2 C 6 2	622.24	632.94	655.32
112162	622.39	637.25	654.99
11 2 3 6 2	622.61	644.87	654.67
11 2662	622.81	642.06	654.35
112762	623.06	648.C8	654.C4
11 2862	623.35	651.85	653.73
11 2962	623.64	652.61	653.43
113062	623.90	649.3C	653.13
120362	624.12	646.41	652.84
120462	624.40	651.48	652.56
12 0562	624.69	653.99	652.28
120662	624.96	651.73	652.01
120762	625.23	652.1C	651.74
12 1 C 6 2	625.43	645.C8	651.48
12 1 1 6 2	625.63	645.16	651.22
121262	625.85	647.33	650.96
12 1 3 6 2	626.04	645.2C	650.72
12 1462	626.26	648.09	650.47

DATE	SGLEXP	DJI	DBLEXP
12 1 7 6 2	626.45	645.49	650.23
12 1 8 6 2	626.59	640.14	649.99
121962	626.79	647.CC	649.76
122062	627.01	648.55	649.53
122162	627.20	646.41	649.31
122462	627.41	647.71	649.09
122662	627.65	651.64	648.88
122762	627.88	650.56	648.67
122862	628.12	651.43	648.46
12 3 1 6 2	628.36	652.10	648.26
10263	628.54	646.79	648.06
10363	628.83	657.42	647.87
10463	629.16	662.23	647.68
10763	629.50	662.65	647.50
10863	629.90	669.88	647.33
10963	63C.28	00.866	647.16
11063	630.68	669.51	646.99
11163	631.08	671.60	646.83
11463	631.53	675.74	646.68
11563	631.97	675.36	646.53
11663	632.34	669.00	646.39
11763	632.75	672.98	646.25
11863	633.14	672.52	646.12
12163	633.57	675.24	646.00
12263	633.98	675.53	645.88
12363	634.42	677.58	645.76
12463	634.88	679.99	645.65
12563	635.32	679.71	645.55
12863	635.8C	682.89	645.45
12963	636.28	683.73	645.36
13063	636.70	678.58	645.27
13163	637.16	682.85	645.19
20163	637.62	683.19	645.12
20463	638.07	682.01	645.05

DATE	SGLEXP	DJI	CBLEXP
20563	638.50	681.30	644.98
20663	638.94	682.52	644.92
20763	639.34	679.C9	644.87
20863	639.75	679.92	644.81
21163	640.10	674.74	644.77
21263	640.46	676.62	644.72
2 1 3 6 3	640.88	681.72	644.69
21463	641.32	685.53	644.65
21563	641.77	686.07	644.62
21863	642.24	688.96	644.60
21963	642.69	686.83	644.58
22063	643.08	682.C6	644.57
22163	643.47	681.64	644.55
22563	643.78	674.61	644.55
22663	644.09	675.28	644.54
22763	644.38	672.94	644.54
22863	644.67	672.94	644.54
30163	644.82	659.72	644.54
30463	645.04	667.C4	644.55
30563	645.26	667.16	644.56
30663	645.49	668.C8	644.57
30763	645.75	671.43	644.58
30863	646.02	672.43	644.59
3 1 1 6 3	646.30	674.02	644.61
31263	646.58	675.20	644.63
31363	646.90	677.66	644.65
3 1463	647.16	673.73	644.68
3 1563	647.46	676.33	644.70
31863	647.72	673.56	644.73
31963	647.96	672.06	644.77
32063	648.25	677.12	644.80
32163	648.52	675.57	644.84
32263	648.82	677.83	644.88
3 2 5 6 3	649.11	678.17	644.92

DATE	SGLEXP	DJI	DBLEXP
32663	649.42	680.38	644.97
32763	649.78	684.73	645.01
32863	650.11	682.58	645.07
32963	650.43	682.52	645.12
40163	650.79	685.86	645.18
40263	651.13	685.53	645.24
40363	651.53	690.51	645.30
40463	651.98	697.12	645.36
40563	652.49	702.43	645.44
40863	653.02	706.C3	645.51
40963	653.55	706.03	645.59
41063	654.06	704.35	645.68
41163	654.61	708.45	645.77
41563	655.17	711.38	645.86
41663	655.73	710.92	645.96
41763	656.28	710.25	646.06
41863	656.80	708.16	646.17
41963	657.34	711.68	646.28
42263	657.88	711.01	646.40
42363	658.45	714.98	646.52
42463	659.04	717.74	646.64
42563	659.64	718.33	646.77
42663	66C.21	717.16	646.91
42963	660.76	715.11	647.05
43C63	661.33	717.70	647.19
50163	661.91	719.67	647.34
50263	662.51	721.09	647.49
50363	663.06	718.CE	647.64
50663	663.57	713.77	647.80
50763	664.06	712.55	647.97
50863	664.60	718.54	648.13
50963	665.18	721.97	648.30
51063	665.76	723.3C	648.48
51363	666.33	723.C1	648.66

DATE	SGLEXP	DJI	DBLEXP
5 1463	666.87	719.84	648.84
51563	667.44	724.34	649.02
51663	668.00	722.84	649.21
51763	668.56	724.81	649.41
52063	669.08	720.18	649.60
52163	669.63	724.04	649.80
52263	670.16	722.84	650.01
5 2 3 6 3	670.67	721.38	650.21
52463	671.17	720.53	650.42
52763	671.64	718.25	650.64
52863	672.11	717.95	650.85
52963	672.61	722.50	651.07
53163	673.15	726.96	651.29
60363	673.68	726.27	651.51
60463	674.21	726.49	651.74
60563	674.73	725.93	651.97
60663	675.25	726.87	652.20
60763	675.72	722.41	652.44
61063	676.13	716.49	652.67
61163	676.55	718.38	652.91
61263	677.02	723.36	653.15
61363	677.46	721.43	653.40
61463	677.91	722.03	653.64
61563	678.31	718.21	653.89
61763	678.72	718.90	654.14
61863	679.13	719.84	654.39
61963	679.55	720.78	654.64
62063	679.94	718.85	654.89
62163	680.30	716.32	655.15
62463	680.69	718.42	655.40
62563	681.04	716.32	655.66
62663	681.32	708.80	655.91
62763	681.57	706.03	656.17
62863	681.82	706.88	656.43

DATE	SGLEXP	DJI	CBLEXP
70163	682.01	701.35	656.68
70263	682.28	708.94	656.94
70363	682.59	713.36	657.20
70563	682.93	716.45	657.45
70863	683.21	710.66	657.71
70963	683.52	714.09	657.97
71063	683.81	712.12	658.23
71163	684.06	709.76	658.49
7 1263	684.30	707.70	658.74
7 1563	684.49	703.28	659.00
71663	684.67	702.12	659.26
71763	684.82	699.72	659.51
7 1863	684.93	695.90	659.77
71963	685.02	693.89	660.C2
72263	685.06	688.74	660.27
72363	685.C8	687.84	660.52
72463	685.14	690.88	660.77
72563	685.17	687.71	661.01
72663	685.21	689.38	661.25
72963	685.26	690.71	661.49
73063	685.38	696.42	661.73
73163	685.48	695.43	661.97
80163	685.57	694.87	662.20
80263	685.69	697.83	662.44
80563	685.86	702.55	662.67
80663	686.C7	707.C6	662.91
80763	686.24	703.18	663.14
80863	686.42	704.18	663.37
80963	686.64	708.39	663.61
81263	88.336	710.27	663.84
81363	687.12	711.13	664.07
81463	687.4C	714.90	664.30
8 15 6 3	687.71	718.55	664.54
81663	668.03	719.32	664.77

DATE	SELEXP	DJI	CELEXP
8 1963	685.2U	718.81	665.01
92063	688.62	717.27	665.25
92163	688.90	715.72	665.48
82263	689.19	718.47	665.72
82363	689.53	723.14	665.96
82663	689.88	724.17	666.20
82763	690.18	719.88	666.44
82863	690.53	725.07	86.666
8 2963	690.88	726.4C	666.92
83063	691.27	729.32	667.16
90363	691.68	732.02	667.41
90463	692.09	732.92	667.65
90563	692.55	737.98	667.90
90663	692.98	735.37	668.15
90963	693.38	732.92	668.41
91063	693.82	737.43	668.66
91163	694.28	740-34	668.92
91263	694.74	740.26	669.17
91363	695.20	740.13	669.44
91663	695.63	738.46	669.70
91763	696.07	740.13	669.96
91863	696.49	737.86	670.23
91963	696.96	743.22	670.49
92063	697.42	743.60	670.76
92363	697.85	740.43	671.03
92463	698.34	745.96	671.31
92563	698.79	743.69	671.58
92663	699.17	736.95	671.86
92763	699.56	737.98	672.13
93063	699.89	732.79	672.41
100163	700.28	738.33	672.69
100263	700.65	737.94	672.97
100363	701.09	744.25	673.25
100463	701.53	745.06	673.53

DATE	SGLEXP	DJI	CELEXP
100763	701.95	743.86	673.82
100863	702.37	743.90	674.10
100963	702.75	739.83	674.39
10 1 C 6 3	703.12	740.56	674.68
10 1 1 6 3	703.51	741.76	674.97
10 1463	703.89	741.84	675.26
10 1563	704.28	742.19	675.55
10 1 6 6 3	704.72	748.45	675.84
10 1763	705.18	750.77	676.13
10 1863	705.63	750.6C	676.43
10 2 1 6 3	706.10	752.31	676.72
1032£.	70€.51	747.21	677.02
10.0363	706.91	746.48	677.32
102463	707.36	751.8C	677.62
102563	707.84	755.61	677.92
102863	708.36	759.39	678.23
102963	708.98	760.50	678.53
10 Cc.	7(S.34	755.19	678.84
10.7167	709.80	755.23	679.15
11 0 163	710.24	753.73	679.46
110463	710.63	749.22	679.77
110663	710.96	744.C3	680.08
11 0763	711.31	745.66	630.40
110863	711.71	750.81	680.71
11 1 1 6 3	712.13	753.77	681.02
11 1263	712.51	750.21	681.34
11 1363	712.89	751.11	681.65
11 1463	713.23	747.C4	681.97
11 1563	713.50	740.CC	682.29
11 1863	713.72	734.85	682.60
11 1963	713.94	736.65	682.91
11 2063	714.23	742.06	683.23
11 2 1 6 3	714.41	732.65	683.54
11 2263	714.38	711.45	683.85

DATE	SGLEXP	UJI	DELEXP
11 2663	714.67	743.52	684.16
11 2763	714.94	741.CC	684.46
112963	715.29	750.52	684.77
120263	715.66	751.91	685.08
12 0 3 6 3	716.02	751.82	685.39
120463	716.41	755.51	685.70
120563	716.89	763.86	686.01
120663	717.32	760.25	686.32
120963	717.74	759.CE	686.64
12 1 C 6 3	718.16	759.25	686.95
12 1 1 6 3	718.55	757.21	687.27
12 1 2 6 3	718.93	757.43	687.59
12 1363	719.35	760.17	687.90
121663	719.77	761.64	688.22
12 1763	720.24	766.38	688.54
12 1863	720.71	767.21	68.86
12 1963	721.14	763.86	689.19
122063	721.55	762.08	689.51
122363	721.91	758.3C	689.84
122463	722.26	756.86	690.16
122663	722.64	760.21	690.48
122763	723.05	762.95	690.81
12 3 C 6 3	723.41	759.90	691.14
10264	723.84	766.08	691.46
10364	724.28	767.68	691.79
10664	724.73	769.51	692.12
10764	725.20	771.73	692.45
10864	725.69	774.46	692.78
10964	726.20	776.55	693.12
1106%	726.68	774.33	693.45
11364	727.15	773.12	693.79
11464	727.62	774.45	694.13
11564	728.09	774.CC	694.47
11664	728.57	776.13	694.81

DATE	SGLEXP	CJI	CHLEXP
11764	729.C4	775.69	695.15
12064	729.48	773.C3	695.49
12164	729.95	776.44	695.84
12264	730.46	781.31	696.19
12364	730.98	782.86	696.53
12464	731.51	783.C4	696.88
12764	732.04	785.34	697.23
12864	732.6C	787.78	697.59
12964	733.10	782.60	697.94
13064	733.60	783.44	698.30
13164	734.12	785.34	698.66
20364	734.63	784.72	699.C2
20464	735.11	783.30	699.38
20564	735.59	783.C4	699.74
20664	736.10	786.41	700.10
20764	736.66	791.59	700.47
21064	737.18	788.71	700.84
21164	737.73	792.16	701.21
21264	738.30	794.82	7C1.58
21364	738.86	794.42	701.95
21464	739.42	794.56	702.32
21764	739.98	796.19	702.70
21864	740.54	795.4C	703.08
21564	741.08	794.51	703.46
22064	741.64	796.99	703.84
22464	742.20	797.12	704.23
22564	742.74	796.59	704.61
22664	743.31	799.38	705.00
22764	743.84	797.04	705.39
22864	744.41	800.14	705.78
30264	744.99	8C2.75	706.17
30364	745.60	8C5.72	706.56
30464	746.19	804.70	706.96
30564	746.76	803.77	707.36

DATE	SGLEXP	EJI	DELEXP
30664	747.36	806.03	707.76
30964	747.95	807.18	708.16
31064	748.57	869.39	708.56
31164	749.22	813.87	708.97
51264	749.87	814.22	709.38
51364	75C.54	816.22	709.79
31664	751.20	816.48	710.20
51764	751.86	818.16	710.62
31864	752.55	820.25	711.04
31964	753.22	819.36	711.46
32064	753.83	814.93	711.89
32364	754.43	813.6C	712.31
3 2 4 6 4	755.CC	811.43	712.74
32564	755.58	813.16	713.17
32664	756.19	815.91	713.60
33064	756.78	815.29	714.03
33164	757.34	813.29	714.46

An attempt was made to forecast the Dow-Jones Industrial Average one day in advance. The expected Dow-Jones Industrial Average, in a statistical sense, is equal to twice the first order exponential average less the second order exponential average:

$$E(DJI) = 2(Sg1) - Db1$$

The trend is  $\frac{CC}{1-cC}$  times the difference in the first and second order exponential averages:

TREND = 
$$\frac{\alpha}{1-\alpha}$$
 (Sg1 - Db1)

The forecast is the algebraic sum of the expected DJI and the trend.

The last column is the forecast from the previous data less the current Dow-Jones.

$$ERROR(I) = FCST(I-1) - DJI(I)$$

-

All comments of the last

\_\_\_\_\_

the second

\_\_\_\_\_

The second

```
PROGRAM DBLEXPSM
DIMENSION IDATE(900), CJ[[9C0], AVG[90C], IIIILE(12], X[900], ADJ[[900]
DIMENSION IDATE(900), CJ[[9C0], DAVG[900], V4 [900], V5 [900], V6 [900]
20, EDJ[[000], TREND[900], CCJ[[9C0], DAVG[900], V4 [900], V5 [900], V6 [900]
20, EDJ[[000], TREND[900], CCJ[[9C0], ERROR [900]]
DDJ[[1], CV2]
DDJ[[1], CV2]
DDJ[[1], CV2]
DDJ[[1], CV2]
DDJ[[1], CV2]
DDJ[[1], CV2]
DDJ[[1], CV3]
DDJ[[1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FCSTEXP
```



DATE	SGLEXP	DJI	OBLEXP	E(DJI)	TRENC	FCST	ERROR
83060	632.04	626.4C	633.73	630.35	73	629.62	-626.40
83160	630.23	625.99	632.68	627.77	-1.05	626.72	3.63
90160	628.99	626.10	631.57	626.40	-1.11	625.29	.62
90260	627.86	625.22	630.46	625.26	-1.11	624.14	.07
90660	625.76	620.85	629.05	622.46	-1.41	621.05	3.29
90760	621.71	612.27	626.85	616.57	-2.20	614.37	8.78
90860	618.62	611.42	624.38	612.87	-2.47	610.40	2.95
90960	617.27	614.12	622.25	612.30	-2.13	610.16	-3.72
91260	614.90	609.35	620.04	609.75	-2.21	607.54	.81
91360	613.96	611.79	618.22	609.71	-1.82	607.89	-4.25
91460	611.48	605.69	616.20	606.77	-2.02	604.74	2.20
91560	608.84	602.69	613.99	603.70	-2.21	601.49	2.05
91660	606.84	602.18	611.85	601.84	-2.14	599.70	69
91960	600.82	586.76	608.54	593.10	-3.31	589.79	12.94
92060	597.03	588.20	605.09	588.98	-3.45	585.53	1.59
92160	596.20	594.26	602.42	589.98	-2.67	587.32	-8.73
92260	594.99	592.15	600.19	589.78	-2.23	587.55	-4.83
92360	592.05	585.20	597.75	586.35	-2.44	583.91	2.35
92660	587.58	577.14	594.70	580.46	-3.05	577.41	6.77
92760	583.75	574.81	591.41	576.08	-3.29	572.80	2.60
92860	579.35	569.08	587.79	570.90	-3.62	567.28	3.72
92960	576.72	570.59	584.47	568.97	-3.32	565.65	-3.31
93060	577.75	580.14	582.45	573.04	-2.02	571.02	-14.49
100360	577.77	577.81	581.05	574.48	-1.41	573.08	-6.79
100460	576.38	573.15	579.65	573.11	-1.40	571.71	07
100560	577.13	578.88	578.89	575.37	75	574.61	-7.17
100660	579.10	583.69	578.95	579.24	.06	579.30	-9.08
100760	581.29	586.42	579.66	582.93	.70	583.64	-7.12
101060	583.10	587.31	580.69	585.51	1.03	586.54	-3.67
101160	584.80	588.77	581.92	587.68	1.23	588.91	-2.23
101260	565.11	585.83	582.88	587.34	.96	588.30	3.08

589.93

1.24

591.17

-3.19

584.12

101360

587.02

591.49

CATE	SGLEXP	110	DBLEXP	E(CJI)	TREND	FCST	ERROR
101460	589.86	596.48	585.84	593.88	1.72	595.60	-5.31
101760	590.90	593.34	587.36	594.45	1.52	595.97	2.26
101860	590.26	588.75	588.23	592.29	.87	593.15	7.22
101960	589.28	587.01	588.55	590.02	.32	590.34	6.14
102060	587.31	582.69	588.17	586.44	37	586.06	7.65
102160	584.38	577.55	587.04	581.72	-1.14	580.58	8.51
102460	580.64	571.93	585.12	576.17	-1.92	574.25	8.65
102560	576.27	566.05	582.46	570.07	-2.66	567.41	8.20
102660	575.94	575.18	580.51	571.37	-1.96	569.42	-7.77
102760	577.44	580.95	579.59	575.30	92	574.38	-11.53
102860	577.59	577.92	578.99	576.19	60	575.59	-3.54
103160	578.42	580.36	578.82	578.02	17	577.85	-4.77
110160	580.46	585.24	579.31	581.62	.49	582.11	-7.39
110260	582.79	588.23	580.36	585.23	1.05	586.28	-6.12
110360	585.20	590.82	581.81	588.59	1.45	590.05	-4.54
110460	588.46	596-07	583.81	593.12	2.00	595.12	-6.02
110760	551.21	597.63	586.03	596.40	2.22	598.62	-2.51
110960	594.52	602.25	588.58	600.47	2.55	603.02	-3.63
111060	599.77	612.01	591.93	607.60	3.36	610.96	-8.99
111160	6C2.42	608.61	595.08	609.76	3.15	612.91	2.35
111460	6C3.14	604.80	597.50	608.77	2.42	611.19	8.11
111560	6C4.26	606.87	599.52	608.99	2.03	611.01	4.32
111660	604.41	604.77	600.99	607.83	1.47	609.30	6.24
111760	6C3.74	602.18	601.82	605.67	.83	606.49	7.12
111860	603.70	603.62	602.38	605.03	.57	605.59	2.87
112160	603.96	604.54	602.85	605.06	.47	605.53	1.05
112260	603.10	601.10	602.93	603.27	.07	603.34	4.43
112360	602.91	602.47	602.92	602.90	01	602.89	.87
112560	603.98	606.47	603.24	604.72	.32	605.03	-3.58
112860	604.41	605.43	603.59	605.24	.35	605.59	40
112960	603.81	602.40	603.66	603.96	.07	604.03	3.19
113060	604.83	607.22	604.01	605.66	•35	606.01	-3.19
120160	601.75	594.56	603.33	6CC.17	68	599.49	11.45
120260	6C0.C3	596.00	602.34	597.71	99	596.72	3.49

DATE	SGLEXP	110	DBLEXP	E(DJI)	TREND	FCST	ERROR
120560	598.06	593.49	601.06	595.07	-1.28	593.79	3.23
120660	597.78	597.11	600.07	595.48	98	594.50	-3.32
120760	599.83	604.62	600.00	599.66	07	599.59	-10.12
120860	601.43	605.17	600.43	602.43	.43	602.86	-5.58
120960	604.27	610.90	601.58	606.96	1.15	608.12	-8.04
121260	606.57	611.94	603.08	610.07	1.50	611.56	-3.82
121360	608.12	611.72	604.59	611.64	1.51	613.15	16
121460	609.49	612.68	606.06	612.91	1.47	614.38	.47
121560	609.87	610.76	607.20	612.53	1.14	613.68	3.62
121660	612.24	617.78	608.71	615.77	1.51	617.28	-4.10
121960	613.24	615.56	610.07	616.4C	1.36	617.76	1.72
122060	613.71	614.82	611.16	616.26	1.09	617.35	2.94
122160	614.22	615.42	612.08	616.37	.92	617.29	1.93
122260	613.95	613.31	612.64	615.26	-56	615.82	3.98
122360	613.73	613.23	612.97	614.50	.33	614.83	2.59
122760	613.63	613.38	613.17	614.09	.20	614.29	1.45
122860	614.26	615.75	613.50	615.03	.33	615.36	-1.46
122960	614.84	616.19	613.90	615.78	.4 C	616.19	83
123060	615.16	615.89	614.28	616.04	.38	616.41	.30
10361	613.68	610.25	614.10	613.27	18	613.09	6.16
10461	616.03	621.49	614.68	617.38	.58	617.95	-8.40
10561	618.02	622.67	615.68	620.36	1.00	621.36	-4.72
10661	619.11	621.64	016.71	621.50	1.03	622.53	28
10961	620.70	624.42	617.91	623.49	1.20	624.69	-1.89
11061	622.21	625.72	619.20	625.22	1.29	626.51	-1.03
11161	623.71	627.21	620.55	626.87	1.35	628.22	70
11261	625.14	628.50	621.93	628.36	1.38	629.74	28
11361	627.70	633.65	623.66	631.73	1.73	633.47	-3.91
11661	629.34	633.19	625.36	633.32	1.71	635.03	.28
11761	629.23	628.96	626.52	631.93	1.16	633.09	6.07
11861	630.69	634.10	627.77	633.61	1.25	634.86	-1.01
11961	631.20	632.39	628.80	633.6C	1.03	634.63	2.47
12061	632.15	634.37	629.81	634.50	1.00	635.50	.26
12361	634.45	639.82	631.20	637.7C	1.39	639.10	-4.32

CATE	SGLEXP	CJI	DBLEXP	E(CJI)	TREND	FCST	ERROR
12461	635.75	638.79	632.57	638.94	1.37	640.31	.31
12561	636.34	637.72	633.70	638.99	1.13	640.12	2.59
12661	637.10	638.87	634.72	639.48	1.02	640.50	1.25
12761	639.05	643.59	636.02	642.C8	1.30	643.38	-3.09
13061	642.53	650.64	637.97	647.08	1.95	649.03	-7.26
13161	644.23	648.2C	639.85	648.61	1.88	650.49	.83
20161	645.78	649.39	641.63	645.93	1.78	651.71	1.10
20261	648.13	653.62	643.58	652.68	1.95	654.63	-1.91
20361	649.58	652.97	645.38	653.78	1.80	655.59	1.66
20661	648.40	645.65	646.29	65C.52	.91	651.43	9.94
20761	647.06	643.94	646.52	647.61	.23	647.84	7.49
20861	647.60	648.85	646.84	648.36	.32	648.68	-1.01
20961	646.86	645.12	646.85	646.86	.00	646.87	3.56
21061	644.70	639.67	646.20	643.2C	64	642.55	7.20
21361	642.40	637.04	645.06	639.74	-1.14	638.60	5.51
21461	642.55	642.91	644.31	64 C.8C	75	640.05	-4.31
21561	644.46	648.89	644.35	644.56	.04	644.60	-8.84
21661	646.68	651.86	645.05	648.30	.70	649.00	-7.26
21761	648.17	651.67	645.99	650.36	.94	651.30	-2.67
22061	649.82	653.65	647.14	652.50	1.15	653.65	-2.35
22161	650.59	652.40	648.17	653.01	1.04	654.05	1.25
22361	651.74	654.42	649.24	654.24	1.07	655.31	37
22461	652.90	655.60	650.34	655.46	1.10	656.55	29
22761	655.16	660.44	651.79	658.54	1.45	659.98	-3.89
22861	657.24	662.08	653.42	661.05	1.64	662.69	-2.10
30161	658.97	663.03	655.09	662.86	1.67	664.53	34
30261	662.10	669.39	657.19	667.C1	2.10	669.11	-4.86
30361	664.94	671.57	659.52	670.37	2.32	672.69	-2.46
30661	667.80	674.46	662.CO	673.59	2.48	676.08	-1.77
30761	667.60	667.14	663.68	671.52	1.68	673.20	8.94
30861	667.16	666.15	664.73	669.6C	1.05	670.65	7.05
30961	666.01	663.33	665.11	666.92	.39	667.30	7.32
31061	665.28	663.56	665.16	665.39	.05	665.44	3.74
31361	665.03	664.44	665.12	664.93	04	664.89	1.00

SGLEXP	DJI	DBLEXP	(IL3)3	TRENE	FCST	ERROR
663.84	661.08	664.74	662.95	38	662.56	3.81
663.55	662.88	664.38	662.73	36	662.37	32
665.6C	670.38	664.75	666.46	.37	666.82	-6.01
668.87	676.48	665.98	671.75	1.24	672.98	-9.66
671.86	678.84	667.75	675.97	1.76	677.73	-5.86
673.92	678.73	669.60	678.24	1.85	680.09	-1.00
675.56	679.38	671.39	679.73	1.79	681.52	.71
675.53	675.45	672.63	678.42	1.24	679.66	6.07
674.61	672.48	673.22	676.CC	.6C	676.60	7.18
673.54	671.03	673.32	673.76	.09	673.85	5.57
672.35	669.58	673.03	671.67	29	671.38	4.27
673.57	676.41	673.19	673.95	.16	674.11	-5.03
674.49	676.63	673.58	675.39	.39	675.78	-2.52
675.42	677.59	674.13	676.71	.55	677.26	-1.81
676.41	678.73	674.81	678.01	.68	678.69	-1.47
676.68	677.32	675.38	677.99	.56	678.55	1.37
677.48	679.34	676.01	678.95	.63	679.59	79
679.34	86.586	677.C1	681.67	1.00	682.67	-4.09
683.16	692.06	678.85	687.46	1.84	689.31	-9.39
686.44	694.11	681.13	691.76	2.28	694.03	-4.80
687.56	690.16	683.C6	692.06	1.93	693.99	3.87
468.90	692.02	684.81	692.98	1.75	694.74	1.97
690.34	693.72	686.47	694.22	1.66	695.88	1.02
692.26	696.72	688.21	696.31	1.74	698.04	84
651.76	690.60	689.27	694.25	1.07	695.31	7.44
690.09	686.21	689.52	690.67	-25	690.92	9.10
688.34	684.24	689.16	687.51	35	687.16	6.68
687.41	685.26	688.64	686.19	52	685.67	1.90
682.99	672.66	686.94	679.03	-1.7C	677.34	13.01
683.C2	683.09	685.77	680.27	-1.18	679.09	-5.75
682.77	682.18	684.87	680.67	90	679.77	-3.09
6E1.8C	679.54	683.95	679.65	92	678.73	-23
680.87	678.71	683.C2	678.72	92	677.80	.02
679.73	677.05	682.C3	677.42	99	676.43	.75
	663.84 663.55 645.6C 668.67 671.86 673.92 675.56 675.53 674.61 673.54 672.35 674.49 675.42 676.41 676.66 677.48 677.38 683.16 686.44 687.56 688.90 680.87	663.84 663.85 662.86 663.55 662.86 670.38 668.67 670.48 671.86 673.92 678.73 675.56 679.38 675.53 675.45 671.61 673.54 671.03 672.35 669.58 673.57 676.41 677.32 675.42 677.48 679.34 679.36 663.16 692.02 660.34 693.72 652.26 690.72 651.76 690.60 660.09 662.27 651.76 663.02 663.02 663.02 663.09 662.77 661.86 663.09 662.77 661.86 663.09 662.77 661.86 663.09 662.77 661.86 663.09 662.77 661.86 676.54	663.84 661.08 664.74 663.55 662.88 664.39 665.6C 670.38 664.75 668.87 676.48 665.99 671.86 678.84 667.75 673.92 678.73 669.60 675.56 679.38 671.39 615.53 675.45 672.63 673.54 671.03 673.32 672.35 669.58 673.03 673.57 66.41 673.19 674.49 676.63 673.58 675.42 677.59 674.13 676.41 678.73 674.81 676.68 677.32 675.38 677.48 679.34 676.01 679.34 683.66 677.01 683.16 692.06 678.85 686.44 694.11 681.13 687.56 690.16 683.06 688.90 692.02 684.81 650.34 693.72 686.47 652.26 696.72 686.81 650.09 686.21 689.52 668.34 684.24 689.16 662.75 683.02 689.27 662.77 682.77 689.77 662.77 682.77 689.77 662.77 682.77 689.77 662.77 682.77 689.77 662.77 682.77 689.77 662.77 682.77 689.77 662.77 682.77 689.77 662.77 682.77 689.77 662.77 682.77 689.77 662.77 682.77 688.77 662.77 682.77 683.77	663.84 661.08 664.74 662.95 663.65 662.86 664.38 662.73 662.86 664.38 662.73 662.66 664.38 662.75 666.46 663.66 676.08 664.75 666.46 668.67 676.48 665.98 671.75 671.86 678.84 667.75 675.97 673.92 678.73 669.60 678.24 675.55 679.38 671.39 675.73 675.55 675.45 672.63 676.42 673.55 675.45 673.22 676.00 673.54 671.03 673.22 676.00 673.55 675.45 673.03 671.67 672.75 672.35 669.58 673.03 671.67 672.75 672.35 669.58 673.03 671.67 673.57 674.13 673.19 673.59 674.19 673.59 674.13 676.71 673.19 673.95 674.19 673.95 674.81 678.71 676.41 678.73 674.81 678.71 676.41 678.73 674.81 678.71 676.41 678.73 674.81 678.71 679.34 679.34 674.81 678.79 679.34 679.34 674.81 678.95 679.34 679.35 679.34 679.35 679.34 679.35 679.36 679.36 679.36 679.37 67	663.84 661.08 664.74 662.9536 663.55 662.88 664.39 662.7336 665.60 670.38 664.75 666.46 .37 666.67 676.48 665.99 671.75 1.24 671.86 678.84 667.75 675.97 1.76 673.92 678.73 669.60 678.24 1.85 675.55 679.38 671.39 679.73 1.79 675.53 675.45 672.63 676.42 1.24 674.61 672.48 673.22 676.00 .60 673.55 671.03 673.32 672.76 .00 672.35 669.58 673.03 671.6729 672.35 669.58 673.03 671.6729 673.57 674.41 673.19 673.95 .16 674.49 676.63 673.58 675.39 .39 675.42 677.59 674.13 676.71 .55 676.41 678.73 674.81 678.95 .39 679.34 679.34 676.01 678.95 .62 679.34 679.34 676.01 678.95 .63 679.34 683.68 677.01 681.67 1.00 683.16 692.06 678.85 687.46 1.84 684.44 694.11 681.13 691.76 2.28 685.90 692.02 684.81 692.98 1.75 690.34 693.72 686.47 654.22 1.66 652.26 696.72 688.21 692.98 1.75 650.09 682.21 689.52 654.67 683.02 683.09 689.57 680.2735 682.77 682.18 684.87 680.77 683.02 683.09 685.77 680.2799 682.77 682.18 684.87 680.77 681.06 679.54 683.95 675.6599 682.77 682.18 684.87 680.67	663.84 661.08 664.74 662.95 -38 662.56 662.86 662.87 662.88 664.78 662.73 -36 662.37 666.82 662.83 664.75 666.46 .37 666.82 666.87 676.48 665.98 671.75 1.24 672.98 671.86 678.84 667.75 675.97 1.76 677.73 673.92 678.73 669.60 678.24 1.85 680.09 675.56 679.38 671.39 675.73 1.79 681.52 675.53 675.45 672.63 676.42 1.24 679.66 675.53 675.45 672.63 676.40 1.24 679.66 678.24 1.25 679.38 671.39 673.32 676.40 1.24 679.66 673.55 677.43 673.32 676.40 1.24 679.66 673.55 677.43 673.32 676.40 1.24 679.66 673.55 677.35 677.33 677.37 1.79 681.52 677.38 673.54 671.03 673.32 673.75 1.09 673.85 672.35 669.58 673.03 671.67 -29 671.38 673.57 676.41 673.49 673.59 1.16 674.11 673.19 673.95 1.16 674.11 675.49 677.59 674.13 676.71 .55 677.26 676.40 677.32 675.39 1.39 675.78 675.48 679.34 676.01 678.95 1.36 678.69 677.48 679.34 676.01 678.95 1.36 678.69 678.69 679.34 683.06 677.01 681.67 1.00 682.67 683.16 692.06 678.65 677.46 689.31 682.66 677.61 683.16 692.06 678.85 687.46 1.84 689.31 682.67 692.06 684.81 692.06 1.93 693.79 685.04 693.72 686.47 684.22 1.66 695.88 693.72 686.47 684.22 1.66 695.88 693.72 686.47 684.22 1.66 695.88 693.72 686.47 684.22 1.66 695.88 693.72 686.47 684.22 1.66 695.88 693.72 686.47 684.22 1.66 695.88 693.72 686.47 684.22 1.66 695.88 693.72 686.47 684.22 1.66 695.88 693.72 686.47 684.22 1.66 695.88 695.74 682.26 696.72 688.21 694.21 1.74 698.04 695.88 692.22 688.64 684.24 689.15 687.55 687.15 687.16 683.02 689.27 684.27 1.95 687.15 687.16 683.02 688.64 686.94 676.03 687.51 1.75 690.92 688.64 686.94 676.03 687.51 1.75 690.92 682.27 686.27 686.27 676.03 685.67 682.27 1.18 679.09 682.77 682.18 684.87 680.67 1.75 677.34 679.09 682.77 682.18 684.87 680.67 1.70 675.31 1.77 695.31 683.02 683.02 683.03 685.77 680.27 1.18 679.09 682.77 682.18 684.87 680.47 680.27 1.18 679.09 682.77 682.18 684.87 680.47 680.27 1.18 679.09 682.77 682.18 684.87 680.47 680.27 1.18 679.09 682.77 682.18 684.87 680.47 680.27 1.18 679.09 682.77 682.18 684.87 680.47 680.47 1.00 679.77 682.18 684.87 680.47 680.47 1.00 679.77 682.18 684.87 680.47

CATE	SGLEXP	CJI	DBLEXP	E(CJI)	TREND	FCST	ERROR
50261	680.51	682.34	681.58	679.44	46	678.99	-5.91
50361	683.03	688.90	682.01	684.04	.43	684.48	-9.91
50461	685.79	692.25	683.15	688.44	1.13	689.58	-7.77
50561	687.26	690.67	684.38	69C.13	1.23	691.37	-1.09
50861	687.80	689.0ć	685.41	69C.19	1.03	691.22	2.31
50961	687.53	686.92	686.C4	689.02	-64	689.66	4.3C
51061	687.26	686.61	686.41	688.11	.36	688.47	3.05
51161	687.03	686.49	686.59	687.46	.19	687.65	1.98
51261	687.29	687.91	686.80	687.78	.21	687.99	26
51561	688.82	692.37	687.41	690.22	.6C	690.83	-4.38
51661	691.49	697.74	688.63	694.35	1.23	695.58	-6.91
51761	695.70	705.52	690.75	700.65	2.12	702.77	-9.94
51861	697.33	701.14	692.73	701.94	1.97	703.91	1.63
51961	699.92	705.96	694.89	704.96	2.16	707.11	-2.05
52261	700.68	702.44	696.62	704.73	1.74	706.47	4.67
52361	700.65	700.59	697.83	703.47	1.21	704.68	5.88
52461	659.41	696.52	698.31	70C.52	.47	700.99	8.16
52561	696.64	690.16	697.80	695.47	5C	694.97	10.83
52661	696.53	696.28	697.42	695.64	38	695.25	-1.31
53161	696.59	696.72	697.17	696.GC	25	695.75	-1.47
60161	696.22	695.37	696.89	695.56	28	695.27	.38
60261	696.67	697.70	696.82	696.51	07	696.44	-2.43
60561	698.69	703.43	697.38	700.01	.56	700.57	-6.99
60661	700.22	703.79	698.23	702.21	.85	703.06	-3.22
60761	700.41	700.86	698.89	701.94	.65	702.59	2.20
60861	700.80	701.69	699.46	702.13	.57	702.71	.90
60961	700.83	700.90	699.87	701.78	.41	702.19	1.81
61261	699.61	696.76	699.79	699.42	ce	699.34	5.43
61361	657.57	694.15	699.25	696.70	55	696.15	5.19
61461	697.32	695.81	698.67	695.98	58	695.40	.34
61561	695.51	691.27	697.72	693.29	95	692.34	4.13
61661	692.50	685.5C	696.16	688.85	-1.56	687.29	6.84
61961	688.96	80.08	694.CO	683.92	-2.16	681.76	6.61
62061	688.63	687.87	692.39	684.88	-1.61	683.27	-6.11

DATE	SGLEXP	DJI	DBLEXP	E(CJI)	TREND	FCST	ERROR
62161	687.87	686.09	691.03	684.71	-1.36	683.35	-2.82
62261	687.19	685.62	689.88	684.51	-1.15	683.36	-2.27
62361	687.63	688.66	689.21	60.696	67	685.39	-5.30
62661	685.69	681.16	688.15	683.23	-1.05	682.18	4.23
62761	685.15	683.88	687.25	683.05	9C	682-14	-1.70
62861	684.98	684.59	686.57	683.39	68	682.71	-2.45
62961	684.07	681.95	685.82	682,32	75	681.57	.76
63061	684.04	683.96	685.29	682.79	53	682.26	-2.39
70361	685.77	689.81	685.43	486.11	• 15	686.25	-7.55
70561	687.87	692.77	686.16	689.58	.73	690.31	-6.52
70661	689.79	694.27	687.25	692.33	1.09	693.42	-3.96
70761	650.67	692.73	688.28	693.07	1.03	694.09	.69
71061	691-42	693.16	689.22	693.62	.94	694.56	.93
71161	692.33	694.47	690.15	694.51	.93	695.45	.09
71261	691.87	690.79	690.67	693.07	•52	693.59	4.66
71361	690.08	685.90	690.49	689.67	18	689.49	7.69
71461	690.34	690.95	690.45	69C-23	05	690.19	-1.46
71761	688.62	684.59	689.90	687.33	55	686.78	5.60
71861	685.82	679.30	688.67	682.97	-1.22	681.74	7.48
71961	684.90	682.74	687.54	682.25	-1.13	681.12	-1.00
72061	684.32	682.97	686.57	682.06	97	681.10	-1.85
72161	683.87	682.81	685.76	681.97	81	681.16	-1.71
72461	683.35	682.14	685.04	681.66	72	680.93	98
72561	684.25	686.37	684.80	683.71	23	683.47	-5.44
72661	667.24	694.19	685.53	688.94	-73	689.67	-10.72
72761	691.90	702.80	687.44	696.37	1.91	698.28	-13.13
72861	695.87	705.13	689.97	701.77	2.53	704.30	-6.85
73161	698.72	705.37	692.60	704.85	2.62	707.47	-1.07
80161	703.29	713.94	695.80	716.77	3.21	713.98	-6.47
80261	705.44	710.46	698.69	712.18	2.89	715.07	3.52
80361	708.52	715.71	701.64	715.40	2.95	718.35	64
80461	712.17	720.69	704.80	719.54	3.16	722.70	-2.34
1 6708	714.39	719.58	707.68	721.11	2.88	723.99	3.12
1 6808	716.14	720.22	710.22	722.07	2.54	724.60	3.77

CATE	SCLEXP	CJI	DBLEXP	E(CJI)	TRENC	FCST	ERROR
80961	716.57	717.57	712.12	721.02	1.91	722.92	7.03
81061	717.75	720.49	713.81	721.68	1.69	723.37	2.43
81161	719.21	722.61	715.43	722.98	1.62	724.60	.76
81461	719.12	718.93	716.54	721.71	1.11	722.82	5.67
81561	718.24	716.18	717.05	719.43	.51	719.94	6.64
81661	718.23	718.20	717.40	719.05	.35	719.41	1.74
81761	719.31	721.84	717.97	720.65	.57	721.22	-2.43
81861	720.58	723.54	718.76	722.4C	.78	723.19	-2.32
82161	721.83	724.75	719.68	723.98	.92	724.91	-1.56
82261	723.01	725.76	720.68	725.34	1.00	726.34	85
82361	722.24	720.46	721.15	723.34	.47	723.81	5.88
82461	719.78	714.03	720.74	718.82	41	718.41	9.78
82561	718.86	716.70	720.17	717.54	56	716.97	1.71
82861	718.00	716.01	719.52	716.48	65	715.83	.96
82961	716.85	714.15	718.72	714.97	8C	714.17	1.68
83061	716.86	716.90	718.16	715.56	56	715.01	-2.73
90161	718.16	721.19	718.16	718.16	OC	718.16	-6.18
90561	718.33	718.72	718.21	718.45	.05	718.50	56
90661	720.63	726.01	718.94	722.33	.73	723.05	-7.51
90761	722.40	726.53	719.98	724.83	1.04	725.87	-3.48
90861	721.95	720.91	720.57	723.34	•59	723.93	4.96
91161	719.68	714.36	720.30	719.05	27	718.78	9.57
91261	720.56	722.61	720.38	720.73	.08	720.81	-3.83
91361	721.05	722.2C	72C.58	721.52	-20	721.72	-1.39
91461	719.23	715.00	720.18	718.29	4C	717.89	6.72
91561	718.35	716.3C	719.63	717.08	55	716.53	1.59
91861	716.22	711.24	718.61	713.83	-1.02	712.81	5.29
91961	712.12	702.54	716.66	707.57	-1.95	705.63	10.27
92061	710.68	707.32	714.86	706.49	-1.79	704.69	-1.69
92161	709.37	706.31	713.22	705.52	-1.65	703.87	-1.62
92261	707.03	701.57	711.36	702.70	-1.86	700.84	2.30
92561	702.48	691.86	708.69	696.26	-2.66	693.60	8.98
92661	659.69	693.2C	705.99	693.39	-2.70	690.69	.40
92761	700.12	701.13	704.23	696.02	-1.76	694.26	-10.44

DATE	SELEXP	DJI	DBLEXP	E(CJI)	TRENC	FCST	ERROR
92861	700.17	700.28	703.02	697.33	-1.22	696.11	-6.02
92961	700.48	701.21	702.26	698.71	76	697.95	-5.10
100261	700.29	699.83	701.66	698.91	59	698.32	-1.88
100361	659.80	698.66	701.11	698.49	56	697.93	34
100461	700.85	703.31	701.03	700.68	08	700.60	-5.38
100561	703.14	708.49	701.66	704.62	.63	705.26	-7.89
100661	704.68	708.25	702.57	706.78	.90	707.69	-2.99
100961	764.90	705.42	703.27	706.53	.70	707.23	2.27
101061	705.43	706.67	703.92	706.94	-65	707.59	•56
101161	705.49	705.62	704.39	706.59	.47	707.06	1.97
101261	705.49	705.50	704.72	706.26	.33	706.59	1.56
101361	704.84	703.31	704.75	704.92	-04	704.96	3.28
101661	704.33	703.15	704.63	704.03	13	703.91	1.81
101761	703.63	701.98	704.33	702.92	3C	702.62	1.93
101861	703.80	704.20	704.17	703.43	16	703.27	-1.58
101961	704.11	704-85	704.15	704.08	02	704.06	-1.58
102061	704.57	705.62	704.28	704.86	•12	704.98	-1.56
102361	702.89	698.98	703.86	701.92	42	701.50	6.00
102461	701.19	697.24	703.06	699.33	8C	698.53	4.26
102561	701.05	700.72	702.46	699.65	6C	699.04	-2.19
102661	700.94	700.68	702.00	699.88	46	699.42	-1.64
102761	700.28	698.74	701.49	699.07	52	698.56	.68
103061	700.52	701.09	701.20	699.85	29	699.56	-2.53
103161	701.54	703.92	701.30	701.78	.10	701.89	-4.36
110161	702.23	703.84	701.58	702.88	.28	703.16	-1.95
110261	703.61	706.83	702.19	7C5.C3	.61	705.64	-3.67
110361	705.31	709.26	703.12	707.49	.93	708.42	-3.62
110661	708.09	714.6C	704.62	711.57	1.49	713.06	-6.18
110861	712.79	723.74	707.07	718.51	2.45	720.96	-10.68
110961	715.64	722.28	709.64	721.63	2.57	724.20	-1.32
111061	718.39	724.83	712.26	724.52	2.63	727.15	63
111361	721.40	728.43	715.C1	727.80	2.74	730.54	-1.28
111461	724.75	732.56	717.93	731-57	2.92	734.50	-2.02
111561	727.63	734.34	720.84	734.42	2.91	737.33	.16

SCLEXP	DJI	DBLEXP	E(DJI)	TRENC	FCST	ERROR
729.34	733.33	723.39	735.29	2.55	737.84	4.00
729.40	729.53	725.19	733.60	1.80	735.40	8.31
729.60	730.09	726.52	732.69	1.32	734.02	5.31
729.52	729.32	727.42	731.62	.9C	732.52	4.70
729.79	730.42	728.13	731.45	.71	732.16	2.10
730.63	732.6C	728.88	732.39	.75	733.14	- , is is
731.04	731.99	729.53	732.55	-65	733.20	1.15
730.15	728.07	729.71	730.58	.19	730.77	5.13
729.26	727.18	729.58	728.94	14	728.80	3.59
726.96	721.6C	728.79	725.13	78	724.34	7.20
727.51	728.8C	728.41	726.62	38	726.23	-4.46
728.62	731.22	728.47	728.78	.06	728.84	-4.99
729.43	731.31	728.76	730.10	.29	730.39	-2.47
729.63	730.09	729.02	730.24	.26	730.50	.30
728.67	726.45	728.92	728.43	1C	728.33	4.05
728.54	728.23	728.80	728.28	11	728.17	.10
729.75	732.56	729.09	730.41	.28	730.69	-4.39
731.03	734.02	729 <b>.67</b>	732.39	.58	732.97	-3.33
732.19	734.91	730.43	733.96	.76	734.72	-1.94
731.82	730.94	730.84	732.79	.42	733.21	3.78
731.09	729.40	730.92	731.27	.07	731.34	3.81
730.08	727.71	730.67	729.49	25	729.24	3.63
727.78	722.41	729.80	725.76	87	724.89	6.83
726.22	722.57	728.72	723.71	-1.08	722.63	2.32
724.38	72C.1C	727.42	721.34	-1.3C	720.04	2.53
723.33	720.87	726.19	72C.46	-1.23	719.23	83
723.26	723.09	725.31	721.20	88	720.32	-3.86
725.71	731.43	725.43	725.99	.12	726.10	-11.11
727.45	731.51	726.C4	728.86	.61	729.47	-5.41
728.56	731.14	726.79	730.32	.76	731.08	-1.67
727.40	724.71	726.98	727.83	.18	728.01	6.37
726.98	726.01	726.98	726.99	.cc	726.99	2.00
725.65	722.53	726.58	724.72	40	724.32	4.46
722.41	714.84	725.33	719.48	-1.25	718.23	9.48
	729.3u 729.40 729.60 729.52 729.79 730.63 731.0u 730.15 729.26 726.96 727.51 728.62 729.43 729.63 728.67 728.54 729.75 731.03 732.19 731.82 731.82 731.82 731.83 732.19 731.82 731.83 732.19 731.82 731.83 732.19 731.82 731.83	729.34 733.33 729.40 729.53 729.40 735.09 729.52 729.32 729.79 736.42 730.63 732.66 731.64 731.99 730.15 728.07 729.26 727.16 727.51 728.62 731.22 729.43 731.31 729.63 730.09 726.67 726.45 721.03 734.02 722.19 734.91 731.82 730.94 731.62 730.94 731.62 732.41 732.26 723.41 732.26 723.41 732.26 723.49 733.26 723.49 733.27 733.28 726.67 733.29 734.38 726.67 733.39 735.67 735.26 737 735.26 737 735.27 735.26 733.99 735.71 731.43 737.40 724.71 736.56 731.14 737.40 724.71 736.56 731.14 737.40 724.71	729.34 733.33 723.39 729.40 729.53 725.19 729.60 735.09 726.52 729.52 729.32 727.42 729.79 730.42 728.13 730.63 732.66 728.88 731.04 731.99 729.53 730.15 728.07 729.71 729.26 727.16 728.79 727.51 728.80 728.41 728.62 731.22 728.47 729.43 731.31 728.76 729.63 730.09 729.02 728.54 728.23 728.80 729.75 732.56 729.09 731.20 729.70 732.19 734.90 729.67 732.19 734.91 730.84 731.03 739.90 730.92 730.06 727.71 729.80 730.07 729.40 730.92 730.08 727.71 729.80 731.09 729.40 730.92 730.08 727.71 729.80 731.09 729.40 730.92 730.20 729.40 730.92 730.20 729.40 730.93 731.20 729.40 730.92 730.21 729.40 730.93 731.20 729.40 730.93 731.20 729.40 730.93 731.20 729.40 730.93 730.20 727.71 729.80 730.21 729.40 730.93 730.22 729.40 730.93 730.28 727.71 729.80 730.28 727.71 729.80 730.28 728.71 729.80 730.28 728.71 729.80 730.29 728.71 729.80 730.20 729.40 730.67 730.71 730.67 730.72 73	729.34         733.33         723.39         735.29           729.40         729.53         725.19         733.60           729.52         725.52         732.69         732.69           729.52         729.32         727.42         731.62           729.79         730.42         728.13         731.45           730.63         732.60         728.88         732.39           731.10         731.99         729.53         732.55           730.15         728.07         729.71         730.58           729.26         727.18         729.58         728.94           720.49         721.00         728.79         725.13           727.51         728.80         728.41         726.49           726.94         721.00         728.79         725.13           727.51         728.80         728.47         728.78           729.43         731.31         728.76         730.10         729.02         730.24           729.43         731.31         728.70         730.24         720.43         720.43         720.43         720.43         720.43         720.43         720.43         720.43         720.43         720.43         720.43         720.4	729.34 733.33 723.39 735.29 2.55 729.40 729.53 725.19 733.60 1.8C 729.60 73C.09 726.52 722.69 1.32 729.52 729.32 727.42 731.62 .9C 729.79 73C.42 728.13 731.45 .71 730.63 732.6C 728.88 732.39 .75 731.C4 731.99 729.53 732.55 .65 730.15 728.07 729.71 73C.58 .16 729.26 727.18 729.58 728.94 .14 726.96 721.6C 728.79 725.1378 727.51 728.8C 728.41 726.62 .38 729.63 731.22 728.47 728.78 .06 729.43 731.31 728.76 73C.10 .29 729.63 730.09 729.02 73C.24 .26 729.63 730.09 729.02 73C.24 .26 729.15 732.56 729.09 730.41 .28 729.17 730.45 728.80 728.80 728.80 .16 729.17 730.94 730.84 732.79 .58 729.19 734.91 730.84 732.79 .58 721.03 734.02 729.67 732.39 .58 721.03 729.40 730.92 730.92 730.94 731.02 730.94 730.94 730.84 732.79 .42 731.02 729.40 730.92 731.27 .07 730.06 727.71 730.67 725.49 .25 727.78 722.41 729.80 725.76 .87 720.22 722.57 728.77 728.77 727.19 .10 723.26 723.09 725.31 721.20 .88 723.26 723.09 725.31 721.20 .88 723.26 723.09 725.31 721.20 .88 723.26 723.09 725.31 721.20 .88 723.27 724.71 730.67 725.49 .25 727.78 722.41 729.80 725.76 .87 720.22 722.57 726.77 726.19 72C.46 .1.21 723.26 723.09 725.31 721.20 .88 723.27 724.71 730.67 725.49 .25 727.72 724.73 724.74 726.60 .61 728.56 731.14 726.79 73C.32 .76 727.40 724.71 730.67 725.86 .61 728.56 731.14 726.79 73C.32 .76 727.40 724.71 730.67 725.89 .12	729.34         733.33         723.39         735.29         2.55         737.84           729.40         729.53         725.19         733.60         1.8c         735.40           729.60         736.09         726.52         722.69         1.32         734.02           729.52         729.32         727.42         731.62         .9c         732.52           729.79         736.42         728.13         731.65         .71         732.16           730.63         732.60         728.88         732.39         .75         733.14           731.04         731.99         729.53         732.55         .65         733.14           730.15         728.07         729.71         736.58         .15         730.77           729.26         727.18         729.58         728.94        14         728.80           720.49         721.60         728.79         725.13        78         724.80           726.96         721.60         728.79         725.13        78         726.23           728.62         731.22         728.47         728.78         .06         728.80           729.43         731.31         728.76         736.10         2

SCLEXP	CJI	CBLEXP	E(DJI)	TREND	FCST	ERROR
718.38	708.98	723.24	713.51	-2.08	711.43	9.25
715.16	707.64	720.82	709.50	-2.43	707.07	3.79
712.42	706.02	718.30	706.53	~2.52	704.01	1.05
711.89	710.67	716.38	707.41	-1.92	705.49	-6.66
711.84	711.73	715.02	708.67	~1.36	707.31	-6.24
711.15	709.51	713.86	708.45	~1.16	707.29	-2.23
709.29	704.93	712.49	706.09	-1.37	704.71	2.36
706.75	700.84	710.77	702.74	-1.72	701.02	3.87
703.07	694.49	708.46	697.69	~2.31	695.38	6.53
701.48	697.77	706.37	696.6C	-2.09	694.51	-2.39
701.63	701.98	704.95	698.32	~1.42	696.90	-7.47
700.70	698.54	703.67	697.74	-1.27	696.46	-1.64
699.94	698.17	702.55	697.33	~1.12	696.22	~1.71
698.92	696.52	701.46	696.37	~1.C9	695.28	30
696.90	692.19	700.09	693.70	-1.37	692.33	3.09
694.81	689.92	698.51	691.10	-1.59	689.52	2.41
694.59	694.09	697.33	691.85	-1.17	690.67	-4.57
696.21	700.0C	697.CO	695.43	34	695.09	~9.33
698.11	702.54	697.33	698.89	.33	699.23	-7.45
700.64	706.55	698.32	702.96	.99	703.95	-7.32
702.29	706.14	699.51	7C5.C7	1.19	706,26	~2.19
704.72	710.39	701.08	708.37	1.56	709.93	-4.13
708.02	715.73	703.16	712.89	2.08	714.97	-5.80
710.66	716.82	705.41	715.91	2.25	718-16	-1.85
711.74	714.27		716.18	1.90	718.08	3.89
712.70	714.92		716.47	1.62	718.08	3.16
						3.76
						3.77
						81
						1.42
						3.68
					716.57	1.16
				.13		3.55
712.98	709.54	713.81	712.16	35	711.81	5.35
	718.38 715.16 712.42 711.89 711.84 711.15 709.29 706.75 703.07 701.48 701.63 700.70 658.92 656.90 654.81 654.59 656.21 658.11 700.66 702.29 704.72 708.02 710.66 711.74	718.38 708.98 715.16 707.64 712.42 706.02 711.89 710.67 711.89 710.67 711.81 711.73 711.15 709.51 760.29 704.93 766.75 704.84 763.07 694.49 761.86 667.77 761.63 701.98 760.70 688.54 659.94 668.17 658.92 696.52 656.90 692.19 658.81 669.92 658.81 702.06 658.11 702.06 706.55 702.29 706.14 704.72 710.39 766.02 715.73 710.66 716.82 711.74 714.27 712.70 714.92 713.18 714.32 713.13 714.32 713.13 714.32 715.10 716.46 714.88 714.32 715.50 715.55 714.46 713.02	718.38 708.98 723.24 715.16 707.64 720.82 712.42 706.02 718.36 711.89 710.67 716.38 711.18 711.73 715.02 711.15 709.51 713.86 709.29 704.93 712.49 706.75 700.84 710.77 703.07 694.49 708.46 701.48 697.77 706.37 701.63 701.98 704.95 700.70 698.54 703.67 659.94 698.17 702.55 658.92 696.52 701.46 654.81 689.92 698.51 654.81 689.92 698.51 654.83 698.93 697.33 656.21 700.00 697.33 656.21 700.00 697.00 658.11 702.55 698.32 702.29 706.14 699.51 704.72 710.39 701.08 708.02 715.73 703.16 710.66 716.82 705.41 711.74 714.27 707.31 712.70 714.92 708.93 713.18 714.32 710.20 713.33 714.36 713.08 714.46 713.00 714.46 713.00 714.10	718.38 708.98 723.24 713.51 715.16 707.64 720.82 709.50 712.42 706.02 718.35 706.653 711.89 710.67 716.38 707.41 711.84 711.73 715.02 708.67 711.87 710.67 713.86 708.45 709.29 704.93 712.49 706.69 706.75 700.64 710.77 702.74 703.07 694.49 708.46 697.69 701.46 697.77 706.37 696.60 701.63 701.98 704.95 658.32 700.70 698.54 703.67 697.74 659.94 698.17 702.55 697.33 658.92 696.52 701.46 696.37 654.90 692.19 700.09 693.70 654.81 689.92 698.51 901.00 654.85 690.09 697.33 691.85 656.21 700.00 697.33 691.85 656.21 700.00 697.33 691.85 700.64 706.55 698.32 702.96 700.14 699.37 700.05 700.37 7	718.38 708.98 723.24 713.51 -2.08 715.16 707.64 720.82 709.50 -2.43 712.42 706.02 718.30 707.41 -1.92 711.89 710.67 710.38 707.41 -1.92 711.84 711.73 715.02 708.67 -1.36 707.41 71.15 709.51 713.86 708.45 -1.16 709.29 704.93 712.49 706.69 -1.37 706.75 704.93 712.49 706.09 -1.37 706.75 704.93 712.49 706.09 -1.37 706.75 700.84 710.77 702.74 -1.72 703.07 694.49 708.46 697.69 -2.31 701.48 697.77 706.37 696.60 -2.05 701.86 697.77 706.37 696.60 -2.05 701.86 697.77 706.37 696.60 -2.10 701.98 704.95 698.32 -1.42 705.94 698.17 702.55 697.33 -1.12 658.92 696.52 701.46 696.37 -1.09 658.92 696.52 701.46 696.37 -1.09 658.91 698.17 702.55 697.33 691.85 -1.17 659.94 698.17 702.55 697.33 691.85 -1.17 659.94 698.17 702.55 697.33 691.85 -1.17 703.07 697.00 692.19 700.09 693.70 -1.37 658.81 689.92 698.51 691.10 -1.59 698.59 694.09 697.33 691.85 -1.17 702.54 697.33 691.85 -1.17 702.54 697.33 691.85 -1.17 702.55 698.32 702.96 99 702.96 703.16 708.37 708.47 708.55 698.32 702.96 99 703.16 708.37 708.65 698.37 703.16 702.95 705.14 709.55 698.32 702.96 99 703.16 708.37	718.38

CATE	SCLEXP	110	DBLEXP	E(CJI)	TRENC	FCST	ERRCR
22662	710.96	706.22	712.95	708.96	8ć	708.10	5.59
22762	709.53	706.22	711.93	707.14	-1.03	706.12	1.88
22862	709.09	708.05	711.08	707.1C	~.85	706.25	-1.93
30162	709.91	711.81	710.72	709.09	35	708.73	-5.56
30262	710.23	711.00	710.58	709.89	15	709.74	-2.27
30562	710.16	709.99	710.45	705.87	13	709.74	25
30662	709.56	708.17	710.19	708.94	27	708.67	1.57
30762	708.68	706.63	709.74	707.63	45	707.18	2.04
30862	710.20	713.75	709.88	710.53	.14	710.67	~ 6 . 57
30962	711.47	714.44	710.36	712.59	.48	713.07	-3.77
31262	712.44	714.68	710.98	713.89	-62	714.52	-1.61
31362	713.68	716.58	711.79	715.57	.81	716.38	-2.06
31462	715.86	720.95	713.C1	718.71	1.22	719.93	-4.57
31562	718.16	723.54	714.56	721.77	1.55	723.32	-3.61
31662	719.55	722.77	716.05	723.04	1.5C	724.54	-55
31962	719.80	720.38	717.18	722.42	1.12	723.54	4.16
32062	719.76	719.66	717.95	721.56	.77	722.33	3.88
32162	718.81	716.62	718.21	715.42	.26	719.68	5.71
32262	718.09	716.39	718.17	718.CC	C4	717.97	3.29
32362	717.60	716.46	718.CO	717.20	17	717.03	1.51
32662	715.52	710.67	717.26	713.78	74	713.04	6.36
32762	713.05	707.28	715.99	710.10	-1.26	708.84	5.76
32862	712.81	712.25	715.C4	710.58	96	709.62	-3.41
32962	712.97	713.34	714.42	711.52	62	710.90	-3.72
33062	711.16	706.95	713.44	700.00	98	707.91	3.95
40262	709.44	705.42	712.24	706.64	-1.20	705.44	2.49
40362	766.79	700.60	710.60	702.97	-1.64	701.34	4.84
40462	703.82	696.88	708.57	695.C6	-2.04	697.03	4.46
40562	702.93	700.88	706.88	698.99	-1.65	697.30	-3.85
40662	701.54	699.63	705.40	698.49	-1.48	697.C1	-2.33
40962	659.25	692.96	703.55	694.94	-1.84	693.10	4.05
41062	658.11	695.46	701.92	694.3C	-1.63	692.67	-2.36
41162	657.15	694.90	700.49	693.81	-1.43	692.38	-2.23
41262	653.70	685.67	698.45	68.86	-2.04	686.92	6.71

CATE	SCLEXP	CJI	DBLEXP	E(CJI)	TREND	FCST	ERROR
41362	691.96	687.90	696.51	687.42	-1.95	685.47	98
41662	689.59	684.06	694.43	684.75	-2.07	682.68	1.41
41762	689.24	688.43	692.88	685.61	-1.56	684.05	-5.75
41862	689.77	691.01	691.95	687.60	93	686.67	-6.96
41962	691.12	694.25	691.70	690.54	25	690.29	-7.58
42362	692.16	694.61	691.84	692.49	-14	692.63	-4.32
42462	692.42	693.00	692.01	692.82	-17	692.99	37
42562	689.80	683.69	691.35	688.25	66	687.58	9.30
42662	684.96	673.68	689.43	680.49	-1.92	678.58	13.90
42762	681.13	672.2C	686.94	675.33	-2.49	672.84	6.38
43062	676.39	665.33	683.78	669.C1	-3.16	665.84	7.51
50162	674.85	671.24	681.10	668.60	-2.68	665.92	-5.40
50262	673.38	669.96	678.78	667.98	-2.32	665.66	-4.04
50362	674.01	675.49	677.35	670.67	-1.43	669.24	-9.83
50462	673.17	671.20	676.10	670.24	-1.25	668.99	-1.96
50762	672.52	670.99	675.C2	670.01	-1.07	668.93	-2.00
50862	669.93	663.90	673.50	666.37	-1.53	664.84	5.03
50962	665.36	654.70	671.06	659.67	-2.44	657.23	10.14
51062	659.92	647.23	667.72	652.13	-3.34	648.79	10.00
51162	654.13	640.63	663.64	644.63	-4.07	640.55	8.16
51462	651.75	646.20	660.07	643.43	-3.57	639.87	-5.65
51562	652.84	655.36	657.90	647.77	-2.17	645.60	-15.49
51662	653.20	654.04	656.49	649.90	-1.41	648.49	-8.44
51762	652.17	649.79	655.20	649.15	-1.29	647.86	-1.30
51862	651.73	650.70	654-16	649.31	-1.C4	648.27	-2.84
52162	650.79	648.59	653.15	648.43	-1.01	647.42	32
52262	646.45	636.34	651.14	641.77	-2.01	639.76	11.08
52362	640.47	626.52	647.94	633.C1	-3.2C	629.81	13.24
52562	631.90	611.88	643.13	62C.67	-4.81	615.85	17.93
52862	615.41	576.93	634.81	596.CC	-0.32	587.69	38.92
52462	617.55	622.56	629.63	605.47	-5.18	600.29	-34.87
52962	613.47	603.96	624.79	602.16	-4.85	597.32	-3.67
53162	613.44	613.36	621.38	605.50	-3.4C	602.09	-16.04
60162	612.72	611.05	618.78	606.66	-2.6C	604.06	-8.96

CATE	SCLEXP	DJI	DBLEXP	E(CJI)	TREND	FCST	ERRCR
60462	607.01	593.68	615.25	598.77	-3.53	595.24	10.38
60562	603.40	594.96	611.70	595.10	-3.56	591.54	.28
60662	6C3.55	603.91	609.25	597.85	-2.44	595.40	-12.37
60762	603.14	6C2.2C	607.42	598.87	-1.83	597.C4	-6.80
60862	602.68	601.61	606.CO	599.37	-1.42	597.95	-4.57
61162	600.43	595.17	604.33	596.53	-1.67	594.86	2.78
61262	594.58	580.94	6C1.40	587.76	-2.92	584.84	13.92
61362	588.42	574.04	597.51	579.33	-3.90	575.44	10.80
61462	580.79	563.00	592.49	569.09	-5.01	564.08	12.44
61562	580.01	578.18	588.75	571.27	-3.75	567.52	-14.10
61862	578.27	574.21	585.61	570.93	-3.14	567.79	-6.69
61962	576.27	571.61	582.81	569.74	-2.8C	566.94	-3.82
62062	572.31	563.08	579.66	564.97	-3.15	561.82	3.86
62162	565.77	550.49	575.49	556.04	-4.17	551.88	11.33
62262	557.79	539.19	570.18	545.41	-5.31	540.10	12.69
62562	551.49	536.77	564.57	538.4C	-5.61	532.79	3.33
62662	546.77	535.76	559.23	534.31	-5.34	528.96	-2.97
62762	543.83	536.98	554.61	533.05	-4.62	528.43	-8.02
62862	547.89	557.35	552.59	543.18	-2.02	541.16	-28.92
62962	551.91	561.28	552.39	551.42	21	551.22	-20.12
70262	558.46	573.75	554.21	562.71	1.82	564.53	-22.53
70362	564.77	579.48	557.38	572.15	3.17	575.32	-14.95
70562	571.10	585.87	561.49	58C.7C	4.12	584.82	-10.55
70662	572.62	576.17	564.83	58C.41	3.34	583.75	E.65
70962	575.C8	58C.82	567.90	582.25	3.07	585.33	2.93
71062	578.36	586.01	571.C4	585.68	3.14	588.81	68
71162	581.57	589.06	574.20	588.94	3.16	592.10	25
71262	584.18	590.27	577.19	591.17	2.99	594.16	1.83
71362	585.98	59C.19	579.83	592.13	2.64	594.77	3.97
71662	586.62	588.1C	581.87	591.37	2.04	593.41	6.67
71762	583.99	577.85	582.50	585.47	-64	586.11	15.56
71862	580.16	571.24	581.80	578.53	7C	577.82	14.87
71962	578.06	573.16	580.68	575.45	-1.12	574.32	4.66
72062	577.8C	577.18	579.81	575.78	86	574.92	-2.86

CATE	SCLEXP	EJI	DBLEXP	E(CJI)	TREND	FCST	ERRGR
72362	577.70	577.47	579.18	576.22	63	575.58	-2.55
72462	576.63	574.12	578.41	574.84	77	574.07	1.46
72562	576.C4	574.67	577.70	574.38	71	573.66	6C
72662	577.11	579.61	577.52	576.70	18	576.52	-5.95
72762	579.48	585.0C	578.11	580.84	.59	581.43	-8.48
73062	583.C7	591.44	579.60	586.54	1.49	588.C2	-10.01
73162	587.53	597.93	581.98	593.08	2.38	595.45	-9.91
80162	588.68	591.36	583.99	593.37	2.01	595.38	4.09
80262	590.22	593.83	585.86	554.59	1.87	596.46	1.55
80362	592.07	596.38	587.72	596.42	1.86	598.28	.08
80662	592.42	593.24	589.13	595.71	1.41	597.12	5.04
80762	591.20	588.35	589.75	592.65	.62	593.27	8.77
80862	551.12	590.94	590.16	592.08	.41	592.49	2.33
80962	591.14	591.19	590.46	591.83	.29	592.12	1.30
81062	591.50	592.32	590.77	592.22	.31	592.53	20
81362	592.63	595.29	591.33	593.94	.5é	594.50	-2.76
81462	595.41	601.90	592.55	598.27	1.23	599.50	-7.40
81562	598.82	606.76	594.43	603.20	1.88	605.08	-7.26
81662	6C1.19	606.71	596.46	605.91	2.03	607.94	-1.63
81762	603.84	610.02	598.67	609.00	2.21	611.21	-2.08
82062	606.54	612.86	6C1.C3	612.05	2.36	614.41	-1.65
82162	607.17	608.64	602.87	611.47	1.84	613.31	5.77
82262	609.68	615.54	604.92	614.45	2.04	616.49	-2.23
82362	611.58	616.0C	606.92	616.24	2.00	618.24	.49
82462	612.23	613.74	608.51	615.94	1.59	617.54	4.5C
82762	612.33	612.57	609.65	615.00	1.15	616.15	4.97
32862	610.21	605.25	609.82	610.59	.17	610.76	10.90
82962	608.19	603.49	609.33	607.05	49	606.56	7.27
83062	606.43	6C2.32	608.46	6C4.4C	87	603.53	4.24
83162	607.25	609.18	608.10	606.41	36	606.05	-5.65
90462	605.81	602.45	607.41	604.21	69	603.53	3.60
90562	603.81	599.14	606.33	601.29	-1.08	600.21	4.39
30662	602.91	600.81	605.31	600.52	-1.03	599.49	6C
90762	602.30	600.86	6C4.40	600.19	9C	599.29	-1.37

CATE	SGLEXP	DJI	DBLEXP	E(CJI)	TRENC	FCST	ERROR
91062	602.22	602.03	603.75	600.69	66	600.03	-2.74
91162	602.75	603.99	603.45	602.05	30	601.75	-3.96
91262	602.93	603.34	603.29	602.56	16	602.40	-1.59
91362	603.25	603.99	603.28	603.21	C1	603.20	-1.59
91462	6C4.C2	605.84	603.50	604.55	.22	604.77	-2.64
91762	6C5.11	607.63	603.98	606.23	.48	606.71	-2.86
91862	605.70	607.09	604.50	606.90	•52	607.42	38
91962	606.12	607.09	604.98	607.25	.49	607.74	.33
92062	604.78	601.65	604.92	604.63	0é	604.57	6.09
92162	88.036	591.78	603.71	598.05	-1.21	596.83	12.79
92462	595.49	582.91	6C1.24	589.73	-2.47	587.27	13.92
92562	593.31	588.22	598.86	587.75	-2.38	585.37	95
92662	588.86	578.48	595.86	581.86	-3.CC	578.86	6.89
92762	584.44	574.12	592.43	576.44	-3.43	573.01	4.74
92862	582.56	578.19	589.47	575.65	-2.96	572.69	-5.18
100162	579.38	571.95	586.44	572.31	-3.03	569.29	.74
100262	579.18	578.73	584.27	574.1C	-2.18	571.92	-9.44
100362	578.99	578.52	582.68	575.29	-1.58	573.70	-6.6C
100462	560.01	582.41	581.88	578.14	8C	577.34	-8.71
100562	581.99	586.59	581.91	582.06	.03	582.09	-9.25
100862	583.22	586.09	582.30	584.13	.39	584.52	-4.0C
100962	584.41	587.18	582.93	585.88	.63	586.51	-2.66
101062	585.53	588-14	583.71	587.34	.78	588.12	-1.63
101162	585.81	586.47	584.34	587.28	.63	587.91	1.65
101262	586.01	586.47	584.84	587.17	•50	587.67	1.44
101562	587.11	589.69	585.52	588.7C	.68	589.38	-2.02
101662	587.78	589.35	586.20	589.37	.68	590.04	.03
101762	587.75	587.68	586.67	588.84	.47	589.30	2.36
101862	585.77	581.15	586.40	585.15	27	584.88	8.15
101962	562.03	573.29	585.09	57E.97	-1.31	577.66	11.59
102262	578.CC	568.60	582.96	573.C4	-2.13	570.91	9.06
102362	572.C2	558.06	579.68	564.36	-3.28	561.07	12.85
102462	573.42	576.68	577.80	569.03	-1.88	567.15	-15.61
102562	572.65	57C.86	576.25	569.04	-1.54	567.50	-3.71

CATE	SGLEXP	DJI	DBLEXP	E(CJI)	TRENC	FCST	ERRGR
102662	571.56	569.02	574.85	568.27	-1.41	566.87	-1.52
102962	573.90	579.35	574.56	573.23	28	572.95	-12.48
103062	578.42	588.98	575.72	581.12	1.16	582.28	-16.03
103162	581.83	589.77	577.55	586.10	1.83	587.93	-7.49
110162	566.42	597.13	580.21	592.62	2.66	595.28	-9.20
110262	591.87	604.58	583.71	600.02	3.5C	603.52	-9.3C
110562	597.45	610.48	587.83	607.07	4.12	611.19	-6.96
110762	602.94	615.75	592.36	613.52	4.53	618.05	-4.56
110862	604.81	609.16	596.10	613.52	3.73	617.25	8.89
110962	608.20	616.13	599.73	616.68	3.63	620.31	1.12
111262	613.07	624.41	603.73	622.4C	4.0C	626.40	-4.10
111362	616.08	623.11	607.43	624.72	3.7C	628.43	3.29
111462	620.40	630.48	611.32	629.47	3.89	633.36	-2.05
111562	623.02	629.14	614.83	631.21	3.51	634.72	4.22
111662	625.29	63C.60	617.97	632.62	3.14	635.76	4.12
111962	625.57	626.21	620.25	630.89	2.28	633.17	9.55
112062	627.78	632.94	622.51	633.05	2.26	635.31	•23
112162	630.62	637.25	624.94	636.30	2.43	638.73	-1.94
112362	634.90	644.87	627.93	641.86	2.99	644.85	-6.14
112662	637.C5	642.06	630.66	643.43	2.73	646.16	2.79
112762	640.36	648.08	633.57	647.14	2.91	650.05	-1.92
112862	643.80	651.85	636.64	65C.97	3.07	654.04	-1.8C
112962	646.45	652.61	639.58	653.31	2.94	656.25	1.43
113062	647.30	649.30	641.90	652.71	2.32	655.02	6.95
120362	647.03	646.41	643.44	65C.63	1.54	652.17	8.61
120462	648.37	651.48	644.92	651.82	1.48	653.30	.69
120562	650.C5	653.99	646.46	653.65	1.54	655.19	69
120662	650.56	651.73	647.69	653.43	1.23	654.66	3.46
120762	651.02	652.1C	648.69	653.35	1.00	654.35	2.56
121062	649.24	645.08	648.85	649.62	.17	649.79	9.27
121162	648.C1	645.16	648.60	647.43	25	647.18	4.63
121262	647.81	647.33	648.36	647.25	24	647.02	15
121362	647.C3	645.2C	647.96	646.09	4C	645.69	1.82
121462	647.35	648.09	647.78	646.91	19	646.73	-2.40

CATE	SGLEXP	CJI	DBLEXP	E(CJI)	TRENC	FCST	ERROR
121762	646.79	645.49	647.48	646.1C	3C	645.80	1.24
121862	644.79	640.14	646.67	642.91	81	642.11	5.66
121962	645.46	647.CC	646.31	644.6C	37	644.24	-4.89
122062	646.38	648.55	646.33	646.44	.02	646.46	-4.31
122162	646.39	646.41	646.35	646.43	.02	646.45	.05
122462	646.79	647.71	646.48	647.09	.13	647.22	-1.26
122662	648.24	651.64	647.C1	649.48	•53	650.01	-4.42
122762	648.94	650.56	647.59	65C.29	.5€	650.87	55
122862	649.69	651.43	648.22	651.15	-63	651.78	56
123162	650.41	652.10	648.88	651.94	.66	652.60	32
10263	649.32	646.79	649.C1	645.64	.13	649.77	5.81
10363	651.75	657.42	649.83	653.67	.82	654.50	-7.65
10463	654.90	662.23	651.35	658.44	1.52	659.96	-7.73
10763	657.22	662.65	653.11	661.33	1.76	663.09	-2.69
10863	661.C2	669.88	655.48	666.55	2.37	668.93	-6.79
10963	663.11	00.833	657.77	668.45	2.29	670.74	•93
11063	665.03	669.51	659.95	67C.11	2.18	672.29	1.23
11163	667.CC	671.6C	662.C7	671.94	2.12	674.05	.69
11463	669.62	675.74	664.33	674.91	2.27	677.18	-1.69
11563	671.34	675.36	666.44	676.25	2.10	678.36	1.82
11663	670.64	669.0C	667.70	673.58	1.26	674.85	9.36
11763	671.34	672.98	668.79	673.89	1.09	674.99	1.87
11863	671.70	672.52	669.66	673.73	.87	674.60	2.47
12163	672.76	675.24	670.59	674.93	.93	675.86	64
12263	673.59	675.53	671.49	675.69	.9C	676.59	.33
12363	674.79	677.58	672.48	677.09	.99	678.08	99
12463	676.35	679.99	673.64	675.06	1.16	680.22	-1.91
12563	677.36	679.71	674.76	679.96	1.11	681.07	.51
12863	679.C2	682.89	676.C3	682.00	1.28	683.28	-1.82
12963	680.43	683.73	677.35	683.51	1.32	684.83	45
13063	679.88	678.58	678.11	681.64	.76	682.40	6.25
13163	680.77	682.85	678.91	682.63	.80	683.43	45
20163	681.49	683.19	679.68	683.31	.78	684.08	.24
20463	681.65	682.01	68C.27	683.C3	•59	683.61	2.07

CATE	SCLEXP	CJI	DBLEXP	E(CJI)	TREND	FCST	ERROR
20563	681.54	681.30	680.65	682.43	.38	682.82	2.31
20663	681.84	682.52	681.C1	682.66	.35	683.02	.30
20763	661.01	679.09	681.01	681.02	.cc	681.02	3.93
20863	680.69	679.92	680.91	680.46	10	680.36	1.10
21163	678.90	674.74	680.31	677.49	60	676.89	5.62
21263	678.22	676.62	679.68	676.75	63	676.12	.27
21363	679.27	681.72	679.56	678.98	12	678.85	-5.6C
21463	681.15	685.53	680.03	682.26	.48	682.74	-6.68
21563	682.62	686.07	680.81	684.44	.78	685.21	-3.33
21863	664.52	688.96	681.93	687.12	1.11	688.24	-3.75
21963	665.22	686.83	682.91	687.52	.99	688.51	1.41
22063	684.27	682.06	683.32	685.22	.41	685.63	6.45
22163	683.48	681.64	683.37	683.59	.05	683.64	3.99
22563	680.82	674.61	682.60	679.04	76	678.27	9.03
22663	679.16	675.28	681.57	676.75	-1.03	675.71	2.99
22763	677.29	672.94	680.29	674.30	-1.28	673.02	2.77
22863	675.99	672.94	679.00	672.98	-1.29	671.69	.08
30163	671.11	659.72	676.63	665.58	-2.37	663.22	11.97
30463	669.89	667.04	674.61	665.17	-2.02	663.14	-3.82
30563	669.07	667.16	672.95	665.19	-1.66	663.53	-4.02
30663	668.77	668.08	671.69	665.85	-1.25	664.60	-4.55
30763	669.57	671.43	671.06	668.C8	64	667.45	-6.83
30863	670.43	672.43	670.87	669.99	19	669.80	-4.98
31163	671.51	674.02	671.06	671.95	.19	672.14	-4.22
31263	672.61	675.20	671.53	673.7C	.47	674.17	-3.06
31363	674.13	677.66	672.31	675.95	.78	676.73	-3.49
31463	674.61	673.73	672.82	675.20	.51	675.71	3.00
31563	674.70	676.33	673.38	676.03	.57	676.59	62
31863	674.36	673.56	673.68	675.C5	-29	675.34	3.03
31963	673.67	672.06	673.67	673.67	00	673.67	3.28
32063	674.71	677.12	673.98	675.43	.31	675.74	-3.45
32163	674.96	675.57	674.28	675.65	.29	675.95	•17
32263	675.82	677.83	674.74	676.91	.46	677.37	-1.88
32563	676.53	678.17	675.28	677.78	.54	678.31	8C

CATE	SCLEXP	DJI	DBLEXP	E(OJI)	TREND	FCST	ERROP
32663	677.68	680.38	676.CO	679.37	.72	680.09	-2.07
32763	679.80	684.73	677.14	682.46	1.14	683.60	-4.64
32863	680.75	682.98	678.22	683.28	1.08	684.37	-62
32963	681.28	682.52	679.14	683.42	.92	684.34	1.85
40163	682.66	685.86	68C.20	685.12	1.05	686.17	-1.52
40263	683.52	685.53	681.19	685.84	1.00	686.84	-64
40363	685.62	690.51	682.52	688.71	1.33	690.04	-3.67
40463	689.07	697.12	684.48	693.65	1.96	695.61	-7.08
40563	653.08	702.43	687.06	699.09	2.58	701.67	-6.82
40863	696.96	706.03	690.03	703.89	2.97	706.86	-4.36
40963	699.68	706.03	692.93	706.44	2.90	709.33	.83
41063	701.08	704.35	695.37	706.79	2.45	709.24	4.98
41163	703.29	708.45	697.75	708.84	2.38	711.21	.79
41563	705.72	711.38	700.14	711.30	2.39	713.69	17
41663	707.28	710.92	702.28	712.28	2.14	714.42	2.77
41763	708.17	710.25	704.05	712.29	1.77	714.06	4.17
41863	708.17	708.16	705.28	711.05	1.24	712.29	5.90
41963	709.22	711.68	706.47	711.98	1.18	713.16	-61
42263	709.76	711.01	707.45	712.06	.99	713.05	2.15
42363	711.32	714.98	708.61	714.03	1.16	715.20	-1.93
42463	713.25	717.74	710.00	716.49	1.39	717.88	-2.54
42563	714.77	718.33	711.44	718.11	1.43	719.54	45
42663	715.49	717.16	712.65	718.33	1.22	719.54	2.38
42963	715.38	715.11	713.47	717.28	.82	718.10	4.43
43063	716.07	717.7C	714.25	717.90	.78	718.68	.40
50163	717.15	719.67	715.12	719.18	.87	720.05	99
50263	718.33	721.09	716.08	720.58	.96	721.55	-1.04
50363	718.26	718.08	716.74	719.78	.65	720.43	3.47
50663	716.51	713.77	716.79	717.03	.05	717.09	6.66
50763	715.60	712.55	716.43	714.77	36	714.42	4.54
50863	716.48	718.54	716.45	716.52	.02	716.53	-4.12
50963	718.13	721.97	716.95	719.31	.5C	719.81	-5.44
51063	719.68	723.30	717.77	721.59	.82	722.41	-3.49
51363	720.68	723.01	718.64	722.72	.87	723.59	60

CATE	SGLEXP	DJI	D8LEXP	E(CJI)	TREND	FCST	ERROR
51463	720.43	719.84	719.18	721.68	.54	722.21	3.75
51563	721.60	724.34	719.91	723.30	.73	724.02	-2.13
51663	721.97	722.84	720.53	723.42	.62	724.04	1.18
51763	722.82	724.81	721.22	724.43	.69	725.12	77
52063	722.03	720.18	721.46	722.60	.24	722.85	4.94
52163	722.63	724.04	721.81	723.46	.35	723.81	-1.19
52263	722.70	722.84	722.C8	723.31	.27	723.58	.97
52363	722.30	721.38	722.14	722.46	.07	722.52	2.20
52463	721.77	720.53	722.03	721.51	11	721.39	1.99
52763	720.71	718.25	721.64	719.79	4C	719.40	3.14
52863	719.88	717.95	721.11	718.66	53	718.13	1.45
52963	720.67	722.50	720.98	720.36	13	720.23	-4.37
53163	722.56	726.96	721.45	723.66	-47	724.13	-6.73
60363	723.67	726.27	722.12	725.22	.67	725.89	-2.14
60463	724.52	726.49	722.84	726.20	.72	726.92	60
60563	724.94	725.93	723.47	726.41	.63	727.04	.99
60663	725.52	726.87	724.C8	726.96	.62	727.57	•17
60763	724.59	722.41	724.23	724.94	.15	725.09	5.16
61063	722.16	716.49	723.61	720.7C	62	720.08	8.60
61163	721.02	718.38	722.84	719.21	78	718.44	1.70
61263	721.73	723.36	722.50	720.95	33	720.61	-4.92
61363	721.64	721.43	722.24	721.03	26	720.77	82
61463	721.75	722.03	722.10	721.41	15	721.27	-1.26
61563	720.69	718.21	721.67	719.71	42	719.29	3.06
61763	720.15	718.90	721.22	719.09	46	718.63	.39
61863	720.06	719.84	720.87	719.25	35	718.90	-1.21
61963	720.28	720.78	720.69	719.86	18	719.68	-1.88
62063	719.85	718.85	720.44	719.26	25	719.00	.83
62163	718.79	716.32	719.94	717.64	49	717.14	2.68
62463	718.68	718.42	719.56	717.79	38	717.41	-1.28
62563	717.97	716.32	719.09	716.86	48	716.38	1.09
62663	715.22	708.8C	717.93	712.51	-1.16	711.35	7.58
62763	712.46	706.03	716.29	708.64	-1.64	707.00	5.32
62863	710.79	706.88	714.64	706.94	-1.65	705.29	.12

CATE	SGLEXP	DJI	DBLEXP	E(CJ1)	TRENC	FCST	ERROR
70163	707.96	701.35	712.63	703.28	-2.00	701.28	3.94
70263	708.25	708.94	711.32	705.18	-1.31	703.87	-7.66
70363	709.78	713.36	710.86	708.71	46	708.25	-9.49
70563	711.78	716.45	711.14	712.43	.28	712.71	-8.2C
70863	711.45	710.66	711.23	711.66	.09	711.76	2.05
70963	712.24	714.09	711.53	712.95	.30	713.25	-2.33
71063	712.20	712.12	711.73	712.67	.20	712.88	1.13
71163	711.47	709.76	711.65	711.29	08	711.21	3.12
71263	710.34	767.7C	711.26	709.42	39	709.02	3.51
71563	708.22	703.28	710.35	706.09	91	705.18	5.74
71663	706.39	702.12	709.16	703.62	-1.19	702.43	3.06
71763	704.39	699.72	707.73	701.05	-1.43	699.62	2.71
71863	701.84	695.90	705.96	697.72	-1.77	695.96	3.72
71963	699.46	693.89	704.C1	694.90	-1.95	692.95	2.07
72263	696.24	688.74	701.68	690.80	-2.33	688.47	4.21
72363	693.72	687.84	699.29	688.15	-2.39	685.76	.63
72463	692.87	690.88	697.37	688.37	-1.93	686.44	-5.12
72563	691.32	687.71	695.55	6E7.C9	-1.81	685.28	-1.27
72663	690.74	689.38	694.11	687.37	-1.44	685.93	-4.10
72963	690.73	690.71	693.09	688.37	-1.01	687.35	-4.78
73063	692.44	696.42	692.90	691.98	20	691.78	-9.07
73163	693.34	695.43	693.03	693.64	.13	693.77	-3.65
80163	693.80	694.87	693.26	694.33	.23	694.56	-1.10
80263	695.01	697.83	693.78	696.23	.52	696.75	-3.27
80563	697.27	702.55	694.83	699.71	1.05	700.76	-5.8C
80663	700.21	707.06	696.44	703.97	1.61	705.58	-6.30
80763	701.10	703.18	697.84	704.36	1.40	705.75	2.40
80863	702.02	704.18	699.09	704.95	1.26	706.21	1.57
80963	703.93	708.39	700.55	707.32	1.45	708.77	-2.18
81263	705.83	710.27	702.13	709.54	1.59	711.12	-1.50
81363	707.42	711.13	703.72	711.13	1.59	712.71	01
81463	709.67	714.90	705.50	713.83	1.78	715.61	-2.19
81563	712.33	718.55	707.55	717.11	2.05	719.16	-2.94
81663	714.43	719.32	709.61	719.24	2.06	721.30	16

CATE	SGLEXP	CJI	DBLEXP	E(CJI)	TRENC	FCST	ERROR
E1963	715.74	718.81	711.45	720.03	1.84	721.87	2.49
82063	716.20	717.27	712.88	719.52	1.42	720.95	4.60
82163	716.06	715.72	713.83	718.28	.95	719.24	5.23
82263	716.78	718.47	714.72	718.85	.88.	719.73	.77
82363	718.69	723.14	715.91	721.47	1.19	722.66	-3.41
82663	720.33	724.17	717.24	723.43	1.33	724.76	-1.51
82763	720.20	719.88	718.12	722.27	.89	723.16	4.88
82863	721.66	725.07	719.18	724.13	1.06	725.19	-1.91
82963	723.C8	726.4C	720.35	725.81	1.17	726.98	-1.21
83063	724.95	729.32	721.73	728.17	1.38	729.55	-2.34
90363	727.07	732.02	723.34	730.81	1.60	732.41	-2.47
90463	728.83	732.92	724.98	732.67	1.65	734.32	51
90563	731.57	737.98	726.96	736.19	1.98	738.16	-3.66
90663	732.71	735.37	728.69	736.74	1.73	738.46	2.79
90963	732.77	732.92	729.91	735.64	1.23	736.86	5.54
91063	734.17	737.43	731.19	737.15	1.28	738.43	57
91163	736.02	740.34	732.64	739.4C	1.45	740.85	-1.91
91263	737.29	740.26	734.04	740.55	1.40	741.95	•59
91363	738.14	740.13	735.27	741.02	1.23	742.25	1.82
91663	738.24	738.46	736 - 16	74C.32	.89	741.21	3.79
91763	738.81	740.13	736.95	740.66	.79	741.45	1.08
91863	738.52	737.86	737.42	739.62	.47	740.09	3.59
91963	739.93	743.22	738.18	741.69	.75	742.44	-3.13
92063	741.03	743.60	739.C3	743.03	.86	743.89	-1.16
92363	740.85	740.43	739.58	742.12	-55	742.67	3.46
92463	742.38	745.96	740.42	744.35	.84	745.19	-3.29
92563	742.78	743.69	741.13	744.42	.71	745.13	1.50
92663	741.C3	736.95	741.10	740.96	03	740.93	8.18
92763	740.11	737.98	740.80	739.43	30	739.13	2.95
93063	737.92	732.79	739.94	735.9C	87	735.03	6.34
100163	738.C4	738.33	739.37	736.71	~.57	736.14	-3.30
100263	738.01	737.94	738.96	737.06	41	736.65	-1.8C
100363	739.88	744.25	739.24	74C.53	•2€	740.80	-7.60
100463	741.44	745.06	739.90	742.97	.66	743.63	-4.26

CATE	SGLEXP	DJI	DBLEXP	E(CJI)	TRENC	FCST	ERROR
100763	742.16	743.86	740.58	743.75	.68	744.43	23
100863	742.68	743.90	741.21	744.16	.63	744.79	.53
100963	741.83	739.83	741.39	742.26	.19	742.45	4.96
101063	741.45	740.56	741.41	741.48	.02	741.50	1.89
101163	741.54	741.76	741.45	741.63	.04	741.67	26
101463	741.63	741.84	741.50	741.76	.05	741.81	17
101563	741.80	742.19	741.59	742.00	.09	742.09	38
101663	743.79	748.45	742.25	745.34	-66	746.00	-6.36
101763	745.89	750.77	743.34	748.43	1.09	749.52	-4.77
101863	747.30	750.60	744.53	750.07	1.19	751.26	-1.08
102163	748.80	752.31	745.81	751.79	1.28	753.08	-1.05
102263	748.33	747.21	746.57	75C.C8	.75	750.84	5.87
102363	747.77	746.48	746.93	748.62	.36	748.98	4.36
102463	748.98	751.8C	747.54	750.42	.62	751.03	-2.82
102563	750.97	755.61	748.57	753.37	1.03	754.39	-4.58
102863	753.50	759.39	750.05	756.94	1.48	758.42	-5.00
102963	755.60	760.50	751.71	759.48	1.66	761.15	-2.08
103063	755.47	755.19	752.84	758.11	1.13	759.24	5.96
103163	755.40	755.23	753.61	757.19	.77	757.96	4.01
110163	754.90	753.73	754.00	755.80	.39	756.19	4.23
110463	753.20	749.22	753.76	752.64	24	752.40	6.97
110663	750.45	744.03	752.76	748.13	99	747.14	8.37
110763	749.C1	745.66	751.64	746.38	-1.13	745.26	1.48
110863	749.55	750.81	751.01	748.09	63	747.46	-5.55
111163	750.82	753.77	750.95	750.68	06	750.62	-6.31
111263	750.63	75C.21	750.86	75C-41	10	750.32	.41
111363	750.78	751.11	750.83	75C.72	02	750.70	79
111463	749.66	747.04	750.48	748.83	+.35	748.48	3.66
111563	746.76	74C.00	749.36	744.15	-1.12	743.04	8.48
111863	743.19	734.85	747.51	738.86	-1.85	737.01	8.19
111963	741.23	736.65	745.63	736.83	-1.89	734.94	-36
112063	741.48	742.06	744.38	738.57	-1.24	737.33	-7.12
112163	738.83	732.65	742.71	734.94	-1.67	733.28	4.68
112263	730.63	711.49	739.09	722.17	-3.63	718.54	21.79

DATE	SGLEXP	DJI	DBLEXP	E(DJI)	TREND	FCST	ERROR
112663	734.49	743.52	737.71	731.28	-1.38	729.90	-24.98
112763	736.45	741.0C	737.33	735.56	38	735.18	-11.10
112963	740.67	750.52	738.33	743.00	1.00	744.01	-15.34
120263	744.C4	751.91	740.04	748.04	1.71	749.75	-7.90
120363	746.37	751.82	741.94	75C.81	1.90	752.70	-2.07
120463	749.12	755.51	744.10	754.14	2.15	756.29	-2.81
120563	753.54	763.86	746.93	760.15	2.83	762.98	-7.57
120663	755.55	760.25	749.52	761.59	2.59	764.18	2.73
120963	756.61	759.08	751.64	761.58	2.13	763.71	5.10
121063	757.40	759.25	753.37	761.43	1.73	763.16	4.46
121163	757.34	757.21	754.56	76C-13	1.19	761.32	5.95
121263	757.37	757.43	755.41	759.34	.84	760.18	3.89
121363	758.21	760.17	756.25	760.17	.84	761.01	•01
121663	759.24	761.64	757.14	761.33	.9C	762.23	63
121763	761.38	766.38	758.42	764.35	1.27	765.62	-4.15
121863	763.13	767.21	759.83	766:43	1.41	767.84	-1.59
121963	763.35	763.86	760.89	765.81	1.06	766.87	3.98
122063	762.97	762.08	761.51	764.43	-62	765.05	4.79
122363	761.57	758.30	761.53	761.61	•02	761.63	6.75
122463	760.16	756.86	761.12	759.19	41	758.78	4.77
122663	760.17	760.21	760.83	759.51	28	759.23	-1.43
122763	761.01	762.95	760.88	761.13	•05	761.18	-3.72
123063	760.67	759.90	760.82	760.53	06	760.46	1.28
10264	762.30	766.08	761.26	763.33	. 44	763.77	-5.62
10364	763.91	767.68	762.06	765.76	.79	766.56	-3.91
10664	765.59	769.51	763.12	768.06	1.06	769.12	-2.95
10764	767.43	771.73	764.41	770.45	1.29	771.75	-2.61
10864	769.54	774.46	765.95	773.13	1.54	774.67	-2.71
10964	771.64	776.55	767.66	775.63	1.71	777.34	-1.88
11064	772.45	774.33	769.10	775.8C	1.44	777.24	3.01
11364	772.65	773.12	770.16	775.14	1.07	776.21	4.12
11464	773.20	774.49	771.07	775.33	.91	776.24	1.72
11564	773.44	774.CC	771.78	775.10	.71	775.81	2.24
11664	774.25	776.13	772.52	775.97	.74	776.71	32

CATE	SELEXP	DII	CBLEXP	E(EJI)	TRENC	FCST	ERROR
11764	774.68	775.69	773.17	776.19	•65	776.84	1.02
12064	774.19	773.03	773.48	774.9C	.30	775.20	3.81
12164	774.86	776.44	773.89	775.83	.42	776.25	-1.24
12264	776.80	781.31	774.76	778.83	.87	779.70	-5.06
12364	778.62	782.86	775.92	781.31	1.16	782.47	-3.16
12464	779.94	783.04	777.13	782.76	1.21	783.97	57
12764	781.56	785.34	778.46	784.67	1.33	786.00	-1.37
12864	783.43	787.78	779.95	786.91	1.49	788.40	-1.78
12964	783.18	782.60	780.92	785.44	.97	786.41	5.80
13064	783.26	783.44	781.62	784.90	.7C	785.60	2.97
13164	763.88	785.34	782.30	785.47	.68	786.15	-26
20364	784.13	784.72	782.85	785.42	.55	785.97	1.43
20464	783.88	783.30	783.16	784.61	.31	784.92	2.67
20564	783.63	783.04	783.30	783.96	.14	784.10	1.88
20664	784.46	786.41	783.65	785.28	.35	785.63	-2.31
20764	786.60	791.59	784.54	788.67	.89	789.55	-5.96
21064	787.23	788.71	785.35	789.12	.81	789.93	.84
21164	788.71	792.16	786.36	791.07	1.01	792.08	-2.23
21264	790.54	794.82	787.61	793.48	1.26	794.73	-2.74
21364	791.71	794.42	788.84	794.57	1.23	795.80	.31
21464	752.56	794.56	789.96	795-17	1.12	796.29	1.24
21764	793.65	796.19	791.07	796.24	1.11	797.34	.10
21864	754.18	795.40	792.00	796.35	.93	797.29	1.94
21964	754.40	794.91	792.72	796.07	.72	796.79	2.38
22064	795.17	796.99	793.45	796.89	.74	797.63	20
22464	755.76	797.12	794.15	797.37	•69	798.06	-51
22564	796.01	796.59	794.70	797.31	.56	797.87	1.47
22664	757.C2	799.38	795.40	798.64	.69	799.33	-1.51
22764	797.03	797.04	795.89	798.16	.49	798.65	2.29
22864	757.96	8CC.14	796.51	799.41	.62	800.03	-1.49
30264	759.40	802.75	797.38	801.42	.87	802.29	-2.72
30364	801.29	805.72	798.55	804.04	1.18	805.21	-3.43
30464	802.32	804.70	799.68	804.95	1.13	806.08	•51
30564	802.75	803.77	800.60	804.90	.92	805.82	2.31

CATE	SGLEXP	DJI	DBLEXP	E(0J1)	TREND	FCST	ERROR
30664	803.74	806.03	801.54	805.93	.94	806.87	21
30964	804.77	807.18	802.51	807.03	.97	808.00	31
31064	806.16	809.39	803.60	808.71	1.09	809.80	-1.39
31164	808.47	813.87	805.06	811.88	1.46	813.34	-4.07
31264	810.19	814.22	806.60	813.79	1.54	815.33	88
31364	812.00	816.22	808.22	815.78	1.62	817.40	89
31664	813.35	816.48	809.76	816.93	1.54	818.47	•92
31764	814.79	818.16	811.27	818.31	1.51	819.82	.31
31864	816.43	820.25	812.82	820.04	1.55	821.59	43
31964	817.31	819.36	814.16	820.45	1.35	821.80	2.23
32064	816.59	814.93	814.89	818.30	.73	819.02	6.87
32364	815.70	813.60	815.13	816.26	.24	816.50	5.42
32464	814.42	811.43	814.92	813.91	22	813.70	5.07
32564	814.04	813.16	814.65	813.42	26	813.16	.54
32664	814.60	815.91	814.64	814.56	02	814.55	-2.75
33064	814.81	815.29	814.69	814.93	•05	814.98	74
33164	814.35	813.29	814.59	814.12	10	814.02	1.69

DATE	CJI	INCEX
122859	669.77	84.7C
10860	675.73	85.7C
11560	659.68	85.1C
12260	645.85	86.00
12960	622.62	86.10
20560	626.77	85.7C
2126C	622.23	85.CC
21960	628.45	84.7C
2266C	632.00	84.4C
30460	609.79	84.2C
3116C	605.83	83.00
31860	616.42	83.5C
32560	622.47	83.00
4016C	615.98	83.CC
4086C	628.10	82.8C
4146C	63C.12	82.8C
42260	616.32	d1.50
42960	601.70	79.90
5 C 6 6 C	607.62	82.70
5 1 3 6 0	616.03	82.6C
52060	625.24	82.70
5276C	624.78	82.60
6 C 3 6 C	628.98	82.7C
61060	654.88	82.CC
61760	650.89	82.3C
62460	647.01	82.6C
70160	641.30	82.2C
70860	646.91	81.60
71560	630.24	81.20
7226C	609.87	81.30
72960	616.73	81.00
8056C	614.29	82.70
8126C	626.18	80.00

DATE	113	INCEX
81560	625.27	82.60
8266C	636.13	81.80
90260	625.22	84.4C
90560	614.12	£3.7C
91660	602.18	84.4C
92360	585.2C	84.6C
93060	58C.14	82.6C
10076C	586.42	81.30
101460	596.48	81.5C
102160	577.55	83.CC
102860	577.92	82.4C
11046C	596.07	81.90
11 1 1 6 0	608.61	82.5C
11 1860	603.62	82.7C
11 2560	606.47	83.4C
120260	596.00	85.10
120560	610.90	84.10
121660	617.78	84.4C
122360	613.23	86.4C
123060	615.89	86.7C
10661	621.64	87.CC
11361	633.65	85.5C
12061	634.37	86.50
12761	643.59	88.5C
20361	652.97	84.4C
21061	639.67	84.8C
21761	651.67	85.5C
22461	655.6C	85.CC
30361	671.57	83.60
31061	663.56	85.90
31761	676.48	85.80
32461	672.48	85.7C
33061	676.63	85.CC
40761	68.68	E4.EC

DATE	EJI	INDEX
41461	693.72	86.4C
42161	685.26	86.00
42861	678.71	88.5C
50561	690.67	87.6C
51261	687.91	86.4C
51961	705.96	87.2C
52661	696.28	87.CC
60261	697.70	87.30
60961	700.90	87.3C
61661	685.50	87.5C
62361	68.66	87.8C
63061	683.96	86.00
70761	692.73	85.20
71461	690.95	85.4C
72161	682.81	85.1C
72861	705.13	85.7C
80461	720.69	84.8C
81161	722.61	83.90
81861	723.54	85.30
82561	716.70	84.60
90161	721.19	84.CC
90861	720.91	85.4C
91561	716.30	85.30
92261	701.57	85.3C
92961	701.21	84.CC
100661	708.25	83.30
10 1 3 6 1	703.31	83.5C
102061	705.62	83.80
102761	698.74	83.80
11 0 3 6 1	709.26	83.30
11 1061	724.83	83.6C
11 1761	729.53	83.90
112461	732.6C	83.90
120161	728.80	83.40

DATE	LII	INCEX
120861	728.23	83.80
12 1561	729.40	84.80
122261	720.87	84.6C
122961	731.14	85.CC
10562	714.84	84.5C
11262	711.73	85.30
11962	697.77	85.10
12662	652.19	85.00
20262	7C6.55	85.10
20962	714.27	84.9C
21662	716.46	85.10
22362	709.54	85.10
30262	711.00	85.6C
30962	714.44	86.4C
31662	722.77	85.30
32362	716.46	85.CC
33062	706.95	84.8C
40662	699.63	85.10
41362	687.9C	85.2C
41962	694.25	84.9C
42762	672.2C	85.10
50462	671.20	84.5C
51162	64C.63	84.7C
51862	65C.7C	83.7C
52562	611.88	83.7C
60162	611.05	83.5C
60862	601.61	83.50
61562	578.18	84.2C
62262	539.19	84.90
62962	561.28	83.9C
70662	576.17	84.5C
71362	590.19	85.1C
72062	577.18	85.6C
72762	585.CC	85.2C

DATE	CJI	INCEX
80362	596.38	85.3C
81062	552.32	85.5C
81762	610.02	84.70
82462	613.74	85.EC
83162	609.18	85.5C
90762	68.006	85.30
91462	605.84	85.10
92162	591.78	84.8C
92862	578.19	84.7C
100562	586.59	84.8C
10 1 2 6 2	586.47	83.60
10 1 9 6 2	573.29	84.5C
102662	569.02	84.8C
11 0262	604.58	84.60
11 0962	616.13	84.60
11 1662	630.60	85.10
11 2 3 6 2	644.87	84.90
113062	649.3C	84.7C
120762	652.10	85.60
12 1462	648.09	85.2C
122162	646.41	85.2C
122862	651.43	84.60
10463	662.23	85.20
11163	671.60	86.5C
11863	672.52	87.20
12563	679.71	85.9C
20163	683.19	86.00
20863	679.92	86.10
21563	686.07	87.30
22163	681.64	88.00
30163	659.72	87.80
30863	672.43	88.2C
3 1563	676.33	91.60
32263	677.83	90.70

DATE	Cli	INCEX
32963	682.52	SC.7C
40563	702.43	91.CC
41163	708.45	89.90
41963	711.68	\$1.2C
42663	717.16	91.50
50363	718.08	92.5C
51063	723.30	92.3C
51763	724.81	91.80
52463	720.53	92.10
53163	726.96	92.CC
60763	722.41	92.7C
61563	718.21	52.4C
62163	716.32	93.10
62863	706.88	92.40
70563	716.45	92.5C
71263	7C7.7C	93.20
71963	693.89	93.6C
72663	689.38	93.60
80265	697.83	93.80
80963	708.39	93.4C
81663	719.32	93.60
82363	723.14	93.00
83063	729.32	93.4C
90663	735.37	93.20
91363	74C.13	94.7C
92063	743.6C	95.00
92763	737.98	94.5C
10 0 4 6 3	745.C6	95.CC
10 1 1 6 3	741.76	93.90
10 1863	750.60	94.10
10 25 6 3	755.61	94.80
110163	753.73	94.30
11 0863	750.81	94.3C
11 1563	74C.CO	54.6C

DATE	11.3	INCEX
11 2263	711.49	93.90
11 2963	75C.52	94.7C
120663	760.25	94.5C
121363	760.17	94.10
122063	762.08	94.4C
122763	762.95	95.00
10364	767.68	95.10
11064	774.33	95.30
11764	775.69	95.40
12464	783.04	95.CC
13164	765.34	94.10
20764	791.59	96.30
21464	754.56	96.30
22064	756.99	96.7C
22864	8CC.14	95.4C
30664	806.03	95.60
31364	816.22	95.6C
32064	814.93	96.CC
32664	815.91	95.90

```
| PARTICLE | PARTICLE
```



16	-29.	-24.	-20-	-16.	-13.	-10.	-	<u>:</u>	-9-	-11:	-5-	-8	-2.	-	۲.	<u>-</u>	7.	12.	Ė	12.	14.	12.	10.	6	7.	10.	æ	10.	17.	23.	30.
1	-6.0	-7.2	-5.1	-13.1	-6.3	-5.7	-4.5	-3.0	-3°C	- 13 · B	-1.7	-1.3	-1.7	-1.6	m)	-3.5	-2.6	3.5	-6.4	7	N:	4.7	2.5	5.6	6.5	1.7		•	2.6	7 . 7	m)
9	14.4	-18.3	-26.2	-12.6	-11.5	-9.C	2.5	-5.9	-7.6	-3.4	-2.6	-3.4	-3.1	9.1	-7.0	-5.1	7.0	-12.8	2	-2.7	9.5	5.1	11.2	12.9	3.4	-2.2	1.0	5.2	8.7	w1	1.2
5	-27.4	-35.3	-18.9	-17.2	-13.5	-8.5	-8.9	-11.5	-5.1	0.4-	-5.1	7.4-	6.1	-10.5	7.7-	10.5	-19.5	7.	-4.C	14.2	7.6	16.8	15.4	5.2	-3.3	1:5	7.7	13.1	٠ س	1.8	;
7	-52.4	-25.2	-23.0	-17.9	-11.8	-11.9	-15.3	1.9-	-5.3	-6.8	-6.3	-1.2	-14.0	-10.2	14.0	-25.7	5	-5.3	18.9	10.2	22.4	25.9	6.9	1 ° 11 -	2.0	10.3	17.4	=	2.5	5.4	2.4
3	-31.6	-28.7	-22.4	-14.6	-14.9	15.1	-8-4	-6.6	-8-4	-7.8	-1.5	-17.5	12.€	17.5	-32.1	9	1.9-	23.7	12.7	28.€	32.4	8.6	-5.5	2.5	12.9	21.8	-:3		8.9		24.3
2	-34.5		-17.8	-17.8	-22.9		-7.9	10.1	4.6-	-1.8			21.0		- 2.				33.6	38.8	10.3	9.9-	3.0	15.5	26.1	1.6	3.7	8.2	3.7	29.5	-5.7
	-31.4 -				-11.8 -	- 2.6-		- 10.9 -						8				39.2		12.1			18.1			1, 3	9.5	4.3	34.0	9-9-	. 1.12
Ξ		ď		•																					6.4		6.4			·	
2	-23.7		·	-13.5		-13.5		-2.4	Ċ					•			8.44		13.8			20.6				10.9		38.9	-7.6	24.1	•
•	-26.8	-34.4	-15.2	-11.9	-15.2	-14.1	-2.7	-31.5	-23.0	31.5	-57.7	-	-12.0	42.6	22.9	50.4	58.2	15.5	-9.9	4.5	23.2	39.2	2.4	5.5	12.2	5.5	43.8	-8.5	27.1	77.8	79.8
æ	-38.2	-16.9	-13.2	-16.9	-15.6	-3.1	-35.0	-25.5	35.0	-64.1	-1.2	-13.3	47.3	25.4	56.0	4.49	17.2	-10.9	6.4	25.8	43.5	2.6	6.1	13.6	6.1	48.6	-9.5	30.2	86.4	88.6	101.5
~	-3.82	- 1.69	-1.32	-1.69	-1.56	31	-3.50	-2.55	3.50	-6.41	12	-1.33	4.73	2.54	5.60	6.47	1.72	-1.09	64.	2.58	4+35	• 26	.61	1.36	.61	4.86	95	3.02	8.64	8.86	10.15
•	-1.20		24	72	. 12	1.63	-1.69	-1.94	00.	-3.15	12	24	2.55	1.33	2.68	3.68	1.72	00.	. 62	.36	3.00	85	.86	-2.01	36	.83	59	2.18	6.27	6.38	4.82
vo	83.00	83.00	82.80	82.80	81.50	75.90	82.70	82.6C	82.70	82.60	82.70	82.00	82.30	82.60	82.20	81.60	81.20	81.30	81.00	82.70	80.00	82.60	81.80	84.40	83.70	84.46	84.60	82.60	81.30	81.50	83.00
2	-2.6	9		-1.0	-1.7	-1.9	-1.8	9*-	3.5	-3.3	•	7	2.2	1.2	2.9	2.8	•	7	7	2.2	7.	3	2	3.4	1.0	0.4	7.	φ.	2.4	2.5	5.3
m	84.20	83.00	83.50	83.00	83.00	82.80	82.80	81.50	79.90	82.70	82.60	82.70	82.60	82.70	82.00	82.30	82.60	82.20	81.60	81.20	81.30	81.00	82.70	80.00	82.60	81.80	84.40	83.70	84.40	84.60	82.60
7	82,00	82.30	82.60	82.20	81.60	81,20	81.30	81.00	82.70	80.00	82.60	81.80	84.40	83.70	84.40	84.60	82.60	81.30	81.50	83.00	82.40	81.90	82.50	82.70	83.40	85.10	84.10	84.40	04.98	86.70	87.00
-	61060	61760	62460	70160	70860	71560	72260	72960	80560	81260	81960	82660	90260	09606	91660	92360	93060	100760	101460	102160	102860	110460	111160	111860	356060	120260	120960	121660	122360	123060	10661

GUICE

PUVING

TERM

LONG

VERY

TRENDEX

	s,			•				.:	<b>.</b> :				·	•	:		<u>.</u>	*			.:	.:			.:									
3			5 C •																															
17	•	7.	•	4.9	5	3.0	8.6	8.5	10.1	8.9	11.8	13.5	4.5	5.5	-	2.9		-	1.0	•	-2.2	-4.2		2.5	6.7	 -	4.0	7:1		4.5	6.3	9.4	5.5	7
92	2.7	1.2	9.7	-1.9	0.9	17.3	17.71	20.3	17.9	23.5	27.8	0.6	10.4	8.2	7.7	-1.4	.7	2.0	-	4.4-	-8.3	-6.1	5.0	13.4	2.9	8.0	14.3	6.1	8.9	12.6	9.6	11.7	2	1.1.
15	3.1	14.6	-2.E	5.0	25.9	26.6	30.4	26.8	35.3	41.7	13.4	15.7	12.3	11.6	-2.1	=	3.0	-	9.9-	-12.5	-9.2	7.4	2C • 0	4.3	12.1	21.4	9.1	13.4	18.5	14.4	17.6	M)	-2.1	-8 · 4
7	19.5	-3.E	12.1	34.6	35.5	9.04	35.7	47.0	55.6	17.9	20.9	16.4	15.4	-2.8	7.	3.9	•5	-8.8	-16.6	-12.3	6.6	26.7	5.8	16.1	28.5	12.1	17.8	25.2	19.2	23.5	5	-2.8	-11.2	-17.4
13			43.2																															
2			53.2																															
=			0.17															Ť													•	•		
9	70.9	81.2	71.4	0.46	111.2	35.9	4.1.8	32.9	30.8	-5.7	5.9	6.7	4.	-17.6	.33.3	-24.5	19.8	53.4	11.5	32.1	57.1	24.3	35.6	50.3	38.4	46.9	6	-5.6	.22.4	. 6*#8	-9.3	55.5	. 62.3	- 58.5
6	91.3	80°4	105.8	125.1	10.3	0.74	37.0	34.7	7.9-	3,3	8.9	7.	19.8	.37.4	. 9.72-	22.3	1.09	13.0	36.2	64.2	27.3	46.1	9.95	43.2	52.8	-1.0	-6.3	.25.2	.39.2	10.4	.62.4	- 1.07	. 32.1	- 7.48
æ	89.3	117.5	139.0	8.44	52.2		38.5	-7.1	3.6	9.8	٥.	-22-1	-41.6	-30.6	24.8	66.8	7.7	40.2	71.4	30.3	44.5	65.9	48.0	58.7		6.9-	.28.0	. 9.54	. 9.11.	. 69.3	. 6.77.	-35.6	. 2.09-	. 5.47.
~	8.53	1.75	3.90	84.4	5.22	= :	3.85	71	92.	96.	• 05	. 2.21	4.16	. 3.C6	2.48	6.68	1.44	4.02	7.14	3.03	64.45	62.9	14.8C	5.87	=	59*-	- 2.8c -	. 92.4	1.16	- 6.93	- 61.1	3.56 -	- 6.07	. 245
•	3.76	5.62	7.27	2.06	1.68	- 47	1.07	95	58	-1.04	-1.49	- 56 -	- 1.57 -	-2.37	1.90	4.36	2.46	1.65	4.31	1.28	1.75	1.87	2.54	3.54	46	93	-3.50 -	-2.85 -	-181-	-2.75 -	-3.56 -	-2.29 -	- 3.05-	- 00 - 4-
٧n	82.40	91.90	82.50	82.70	83.40	85.10	84.10	84.46	86.40	96.70	87.CC	85.50	86.50	88.50	84.46	84.80	85.50	85.00	83.6C	85.90	85.80	85.70	85.00	84.80	86.40	86.00	86.50	87.60	86.40	87.2C	87.00	87.30	87.30	87.50
2	5.2	6.1	9.9	2.4	3.5	3.6	2.8	.2	6.	2.0	1.5	-1.6	-2.2	7	9.	2.3	-1.0	2.4	2.8	1.8	2.7	7.	6.1	2.3	*	•5	٠.	-1.5	-,3	-4.2	-4.2	-1.3	-3.0	-3.4
m	81.30	81.50	83.00	82.40	81.90	82.50	82.70	83.40	85.10	84.10	84.40	86.40	86.70	87.00	85.50	86.50	88.50	84.40	84.80	85.50	85.00	83.60	85.90	85.80	85.70	85.00	84.80	86.40	86.00	88.50	87.60	86.40	87.20	87.00
2	85.50	86.50	88.50	84.40	84.80	85.50	85.00	83.60	85.90	85.80	85.70	85.00	84.80	86.40	86.00	88.50	87.60	86.40	87.20	87.00	87.30	87.30	87.50	87.80	86.00	85.20	85.40	85.10	85.70	84.80	83.90	85.30	84.60	84.00
-	11361	12061	12761	20361	21061	21761	22461	30361	31061	31761	32461	33061	19204	19414	42161	42861	50561	51261	19615	52661	60261	19609	61661	62361	63061	10761	71461	72161	72861	80461	81161	81861	82561	19106

	-3 C-	28.	-26.	-27.	-27.	-26.	-54.	-21.	-22.	-5c.	-17.	-17.	-17.	-15.	-12.	-8-	-5-	-2-		e e	÷		5.	۲.	.7.	<u>.</u>	2 C.	.61	. 9	° (M	°.	.5	٤.	;
35		e e	1 7	2														_	9	_	#	9	0	2	~	_		2	_	_	_	-	m	0
11	i	-5-	7	÷	-6.9	-7.8	-3.6	-6.1	-7.4	-4.9	-3.1	-2.4	0.9-	-5.3	-4.6	-3.	-1.6	1.55	-2.6	ï	-3.4	-3.6	-2-	•2		1:	-	4.2	-	W)	3.0	**	m)	3.
92	-5.6	-8.7	-2.3	-13.9	-15.6	-7.1	-12.1	-14.9	-9.E	-6.2	-4.8	-11.9	-10.5	-9-1	-6.1	-3.3	-10.3	-5.2	2	-6.8	-7.3	-4-0	s.	1.5	2.9	2.5	8.4	8.2	6.2	0.9	6.2	7.7	0.0	5.9
15	-13.1	-3.5	-20.8	-23.4	-16.7	-18.2	-22.3	-14.7	-9.3	-7.2	-17.5	-15.8	-13.7	-5.2	6.4-	-15.4	-7.E	7.	-10.2	-10.9	J-9-	٠.	2.2	E . 3	4 • 3	12.6	12.2	5.3	6.9	5.3	11.5	8.9	8.9	17.2
2	9.4-	-27.7	-31.1	-14.3	-24.3	-29.8	-19.6	-12.4	9.6-	-23.9	-21.0	-18.2	-12.2	9.9-	-20.6	-10.4	5	-13.6	-14.6	-8.0	1.0	3.0	5.8	5.7	16.8	16.3	12.4	11.9	12.5	15.3	11.9	11.9	22.9	8.6
13	-34.7	-36.5	-17.8	-30.4	-37.2	-24.5	-15.5	-12.C	-29.8	-26.3	-22.8	-15.3	-8.2	-25.7	-13.C	9	-17.C	-18.2	-10.0	1.2	3.7	7.2	7.2	21.0	2C.4	15.5	14.9	15.6	19.2	14.9	14.8	28.6	10.7	;
12	-46.7	-21.4	-36.4	-44.7	-29.5	-18.6	-14.4	-35.8	-31.5	-27.4	-18.3	6.6-	-30.9	-15.6	1	-20.4	-21.9	-12.0	1.5	4.4	8.7	8.6	25.1	24.5	18.6	17.9	18.7	23.0	17.9	17.8	34.3	12.9	5.0	-2.1
Ξ	-24.9	-42.5	-52.1	-34.4	-21.7		-41.8		-31.9				-18.2	8	-23.8	-25.5	-14.0	1.7	5.2	10.1	10.0	29.3	28.5	21.7	20.9	21.8	26.8	20.9	20.8	40.1	15.0	5.8	-2.4	ဆ္
2	9.84-	9.65-		-24.8	-19.2	7.74-	-42.0		-24.4							-16.0				11.4	33.5	32.6	24.9	23.9	24.9	30.7	23.9	23.8	45.8	17.1	9.9	-2.8	6.	8.5
o-	-67.0	-44.2	-27.9	-21.6	-53.7	-47.3	-41.1	-27.5	-14.8	-46.3	-23.4	7	-30.6	-32.8	-18.0	2.2	4.7	13.0	12.9	37.7	36.7	28.0	26.8	28.0	34.5	26.8	26.7	51.5	19.3	7.4	-3.1	:	9.6	-6.3
æ	-49.1	-31.0	-24.0	-59.7	-52.5	-45.6	-30.5	-16.5	-51.5	-26.0	-1.2	-34.0	-36.5	-20.0	2.5	7.4	14.4	14.3	41.9	8.04	31.1	29.8	31.1	38.3	29.8	29.7	57.2	21.4	8.3	-3.5	1.2	10.6	-7.0	2.4
~	15.4-	-3.10	-2.40	-5.97	-5.25	-4.56	-3.05	-1.65	-5.15	-2.60	12	-3.40	-3.65	-2.co	•25	.74	1.44	1.43	4.19	4 . CB	3.11	2.58	3.11	3.83	2.58	2.97	5.72	2 - 14	.83	35	• 12	1.06	70	•24
v	-2.73	81	. 12	-1.64	-2.12	-2.57	-1.18	12	-2.34	-1.18	12	-1.76	-2.23	-1.76	. 55	1.56	1.80	. 84	1.79	2.16	1.67	1.43	1.19	2.04	1.55	16.	2.13	• 35	.59	59	00.	.24	24	.24
<b>v</b> n	87.80	86.00	85.2C	85.4C	85.10	85.7C -	84.8C	83.90	85.30	84.6C	84.00	85.40	85.3C -	85.30	84.00	83.3C	83.5c	83.80	83.80	83.30	83.6C	83.90	83.90	83.40	83.80	84.80	84.6C	85.0C	84.5C	85.30	85.10	85.00	85.10	36.48
3	-2.2	-2.3	-2.5	-4.3	1-3-1	-2.0	-1.9	-1.5	-2.8	7: -	۰.	9.1-	1.1.	2	1	8.1	7.	9.	2.4	1.9	7.	9:1	1.9	1.8	7.	2.0	3.6	1.8	•5	•5	7	80.	5	•
м	87.30	87.30	87.50	87.80	86.00	85.20	85.40	85.10	85.70	84.80	83.90	85.30	84.60	84.00	85.40	85.30	85.30	84.00	83.30	83.50	83.80	83.80	83.30	83.60	83.90	83.90	83.40	83.80	84.80	84.60	85.00	84.50	85.30	85.10
2	85.40	85.30	85.30	84.00	83.30	83.50	83.80	83.80	83,30	83.60	83.90	83.90	83.40	83.80	84.80	84.60	85.00	84.50	85.30	85.10	85.00	85.10	84.90	85.10	85.10	85.60	86.40	85.30	85.00	84.80	85.10	85.20	84.90	85.10
-	90861	19516	92261	92961	100661	101361	102061	102761	110361	111061	111761	112461	201617	120861	121561	122261	122961	10562	11262	11962	12662	20262	20962	21662	22362	30262	30962	31662	32362	33062	40662	41362	41962	42762

	-:	<u>.</u>	ŝ		5.	ŝ	٠,		•		÷		:		;	•	-	;			*	•	.:	:	·		:		٠	•	٠		* ** 1	•
18		1	ï	ì	7	7	7	7	7	•	•																							
17	3.5	5.7	2.1	ω,	7	-	Ξ	7	.2	-1.3	5	-3.6	-4.8	J. 4.	-4.2	-2.3	7	-2.8	8	٥.	1.8	6.	2.1	W .	-	5.3	3.7	2.6	(N)	=	7	-	-2.9	-1.6
91	Ĩ.	4.3	1.7			2.1	-1.4		-2.6	-1.9	-7.3	-9.5	-8.0	-8.4	-6.5	-1:	-5.6	-1.6	٥.	() (N	1.9	# • 3	6.7	2.5	10.5	7.4	5.3	6.7	2.1	-1.4	M *	5.5-	M) M)	-3.5
15	6.4	2.5	-1°C	<i>-</i> .	3.2	-2.1	٠.	-3.9	-2.8	-10.9	-14.3	-12.0	-12.7	8.2-	-2.1	-8.5	-2.5	0.	(N)	2.8	6.4	10.0	E .	15.8	=	7.9	10.0	3.2	-2.1	7.	-E.B	-4.9	-5.3	-2.5
2	60 80 80	7:1-	• 5	4.3	-2.8	6.	-5.2	-3.8	-14.5	-19.1	-16.0	-16.9	-13.0	-2.8	-11.3	-3.3	•	1.1	3.8	8.6	13.3	5.7	1.12	14.8	10.5	13.4	t, , 3	-2.8	9.	-11.8	9.9-	0.1-	-3.3	-8.9
13	-1.7	• 6	5.3	-3.5	1.2	-6.5	7·4-	-18.2	-53.9	-20°C	-21.1	-16.3	-3.5	-14.1	1.4-	•	6.9	4.7	10.7	16.7	7.2	26.3	18.5	13.1	16.7	m • u	-3.5	۲.	14.7	-8-2	8.8-	-4.1	7-17-	-4-7
12																																	-5.6	
_	7.4	6.4-	1.6	1.6-	9.9-	25.4	33.4	27.9	. 5.62	22.8	6.4-	19.7	-5.8	٥.	12.4	9.9	15.0	23.3	10.1	36.8	55.9	18.4	23.4	7.5	6.4-	0:-	20.6	11.5	12.3	-5.8	15.5	-6.5	-1.6	12.3
_ _						•						•															•	•			•		-14.C	'
6			•			·	·																			•	•	•		•			9.5 -	
w		•			•	•				•															•	•	•		•				7.4	
_	1.29 -		3.63 -	,	•	•																		•	'	•		•			•			
9	- 11 -	47	- 1	- 1			- 1																		- 1	- 1		- 1			- 1		• 59	74.
us.	95.10	95.10	85.6C	86.40	85.3C	85.0r	84.80	85.10	85.2C	84.90	85.10	84.5C	94.70	83.70	83.70	83.5C	83.5c	84.2C	84.90	83.90	84.50	85.10	95.6C	85.2C .	85.30	85.50	84.7C	85.8C	85.5C	85.30	85.10	84.80	84.7C	84.80
a	9.1	5	#	-1.6	-1.9	-2.5	-2.5	5	-1.3	70-1	0.	•	*	•5	1.2	0.	2.5	2.2	2.2	1.9	.7	2	-	-	T	6	7	B) * 1	5	• 5	-1.3	-	7	7
۳	85.00	85.10	84.90	85.10	85.10	85.60	86.40	85,30	85.00	84.80	85.10	85.20	84.90	85.10	84.50	84.70	83.70	83.70	83.50	83.50	84.20	84.90	83.90	84.50	85.10	85.60	85.20	85.30	85.50	84.70	85.80	85.50	85.30	85.10
2	84.50	84.70	83.70	83.70	83.50	83.50	84.20	84.90	83.90	84.50	85.10	85.60	85.20	85.30	85.50	84.70	85.80	85.50	85.30	85.10	84.80	84.70	84.80	83.60	84.50	84.80	84.60	84.60	85.10	84.90	84.70	85.60	85.20	85.20
-	50462	51162	51862	52562	60162	60862	61562	62262	62962	70662	71362	72062	72762	80362	81062	81762	82462	83162	90762	91462	92162	92862	100562	101262	101962	102662	110262	110962	111662	112362	113062	120762	121462	122162

		•	6.	.,	15.	.91	٠٢.	21.	:	:1:	.:		•	:	.:	.:	.:	.:			:					•								
36		•	Ĭ	=	-	~	Ξ	2	24.	2.	3°.	-	# B	52.	56.	58.	ęc.	62.	65.	66.	65	63.	56.	2	50.	44.	39.	4 (3	3C.	29	26.	26.	23	2.1
17	-1.8	B	-2.2	5	2	-1.8	=	9	•	1.0	1.4	14.0	7.4	3.2	2.5	3.2	6.3	6.2	6.5	7.7	15.3	12.9	11.3	11.9	10.2	11.5	11.2	13.6	12.2	11.2	6.6	5.0	7.8	6.6
16	-1.6	7.7	-1.9	1	-3.5	2.1	5.	1.2	1.5	2.€	B.0	14.8	6.4	4.9	4.9	12.5	12.4	12.5	15.3	30.6	25.8	22.6	23.8	20.3	23.0	22.4	27.3	24.4	22.4	19.8	10.0	15.6	13.3	7.9
15	-6.7	-2.8		15.3	3.2	1.	1.8	2.9	4.3	12.0	22.1	9.6	7.4	9.6	18.8	18.6	15.4	23.0	45.9	38.7	33.9	35.8	30.5	34.4	33.6	5.04	36.€	33.5	29.8	14.5	23.4	19.9	11.8	14°C
2	-3.7	6.1	-7.0	4.2	1.9	2.4	3.8	5.7	16.0	29.5	12.8	6.6	12.7	25.0	24.8	25.9	30.6	61.1	51.6	45.2	47.7	40.7	45.9	44.8	9.45	48.8	144.7	39.7	19.9	31.1	26.5	15.8	18.6	13.6
13	-1.2	-8.8	5.3	2.4	2.9	4 • B	7.1	2C.C	36.5	16.0	12.4	15.9	31.3	31.1	32.3	38.3	76.4	64.6	9.95	9.65	50.9	57.4	26°C	68.2	61.1	55.9	9.64	24.9	38.9	33.2	19.7	23.3	17.1	21.4
12	-10.5	4.9	2.8	3.5	5.8	8.5	24.1	44.3	19.2	14.8	19.1	37.6	37.3	38.8	45.9	1.16	17.5	6.79	71.5	0.10	6.99	67.2	81.8	73.3	67.1	59.5	29.9	1.6.7	39.8	23.7	27.9	20.5	25.7	31.8
Ξ	7.4	3.3	-;	6.7	5.6	28.1	51.7	22.4	17.3	22.3	43.8	43.5	45.3	53.6	167.0	4.05	79.2	83.5	71.2	8C.4	78.4	95.5	65.5	78.2	4.69	34.9	54.5	46.5	27.6	32.6	23.9	29.9	37.1	28.3
10	3.6	1. t	7.7	11.3	32.1	59.0	25.5	19.8	25.5	50.1	1.64	51.7	61.2	122.3	103.3	90.5	4.56	£1.4	8.1.8	89.6	109.1	7.72	4.68	19.4	39.9	62.3	53.1	31.6	37.2	27.3	34.2	42.4	32 • 3	37.5
0	5.3	8.6	12.8	36.1	4.99	28.7	22.3	28.7	56.4	55.9	58.2	68.8	137.6	116.2	101.8	107.3	91.6	103.3	100.8	122.8	109.9	100.6	89.3	44.8	1.07	59,7	35.5	41.9	30.7	38.5	47.7	36.4	42.2	21.5
eu	9.6	14.2	40.1	73.8	31.9	24.7	31.9	62.6	62.1	64.7	76.5	152.8	129.1	113.1	119.2	101.7	114.8	112.0	136.4	122.1	111.8	99.5	49.8	17.9	66.4	39.5	9.94	34.1	42.8	53.0	4.04	6.94	23.8	31.5
-	95.	1.42	4.C1	7.38	3.19	2.47	3.19	6.26	6.21	6.47	7.65	15.28	12.51	11.31	11.92	10.17	11.48	11.20	13.64	12.21	11.18	9.92	86*4	7.79	49.9	3.95	99*1	3.41	4.28	5.30	4 . C4	4.69	2.38	3.15
40	1.20	. 83	2.00	3.67	1.54	1.06	1:1	3.07	2.80	3.05	3.52	8.27	94.9	4.86	4.36	4.66	6.05	6.27	96*5	4.89	4.56	4.42	44.	2.21	1.87	2.31	2.78	1.43	1.86	1.19	1.41	2.18	1.41	1.74
vi	83.60	84.50	84.80	84.60	84.60	95.10	94.90	84.70	85.6C	85.20	85.2C	94.60	85.2C	86.50	87.2C	85.90	86.00	86.10	87.30	88.00	87.80	88.20	91.60	90.70	90.70	91.00	85.90	91.20	91.50	92.50	92.30	91.80	92.10	92.00
4	2	9.	2.0	4.3	1.7	7.	1.8	3.2	3.4	3.4		7.0	6.5	6.5	7.6	5.5	4°5	4.9	7.7	7.3	9.9	5.5	4.5	9.5	8° 7	1.6	1.9	2.0	2.4		2.6	2.5	0:-	₹.
m	84.80	84.70	84.80	83.60	84.50	84.80	84.60	84.60	85.10	84.90	84.70	85.60	85.20	85.20	84.60	85.20	86.50	87.20	85.90	86.00	86.10	87.30	88.00	87.80	88.20	91.60	90.70	90.70	91.00	89.90	91.20	91.50	92.50	92.30
7	84.60	85.20	86.50	87.20	85.90	86.00	86.10	87.30	88.00	87.80	88.20	91.60	90.70	90.70	91.00	89.90	91.20	91.50	92.50	92.30	91.80	92.10	92.00	92.70	92.40	93.10	92.40	92.50	93.20	93.60	93.60	93.80	93.40	93.60
-	122862	10463	11163	11863	12563	20163	20863	21563	22163	30163	30863	31563	32263	32963	40563	41163	41963	42663	50363	51063	51763	52463	53163	60763	61563	62163	62863	70563	71263	71963	72663	80263	80963	81663



	.61	18.	15.	17.	15.	18.	.61	18.	. 91	. 91	<u>:</u>	<u>:</u>	13.	÷	÷	.5	e.	5.	5.	u,	5.	۲.	٠.	2°	.5	÷	<u>.</u>	15.	15.		5.	
36																																
11	W1	÷	m)	4	u;	;	<u>;</u>	2	κn	-	2	-	4	5	2	4	-	÷	2.	-	5.	2.	÷	-	•	•	ï	-	-	•	2.8	-
92	9.3	6.8	8.6	10.6	8.1	4.6	4 · B	6 • 3	3.3	5.0	2 ° E	9.3	11.0	5.8	8.6	3.7	5.€	5.6	3.0	9.9	5.1	2.1	3.7	1.3	=	-1.9	2.3	3.4	1.7	() ()	3.4	-2.5
15	10.2	12.8	15.9	12.1	14.1	7.2	4.6	6.4	7.5	4 • 2	13.9	16.5	1.8	12.9	5.5	3.9	8.3	4.5	5.8	7.7	3.2	5.5	2°C	1.6	-2.8	3.5	5.1	2 • 5	8.3	5.1	-3-8	14.0
2	17:1	21.2	16.2	18.8	9.5	12.6	6.5	10.0	5.6	18.6	22.1	11.6	17.2	7.3	5.1	=	0.9	7.7	10.3	4.3	7.3	5.6	2.2	-3.8	4.7	8.9	3.4	=	6.8	-5.1	18.7	15.2
<u> </u>	26.5	20.2	23.5	11.9	15.7	8.2	12.5	7.1	23.2	27.6	14.5	21.5	5.5	4.9	13.9	7.5	1.6	12.8	5.4	5.1	3.3	2.7	7.4-	6.5	8.5	4.2	13.8	8.5	-6.3	23.4	19.1	22.7
2	24.2	28.2	14.3	18.9	9.8	15.0	8.5	27.9	33.1	17.4	25.9	0.11	7.7	16.7	0.6	9.11	15.4	4.9	11.0	3.9	3.3	-5.7	7.0	10.2	5.1	16.6	10.2	-7.6	28.1	22.9	27.*3	17.9
=	32.8	16.7	22°C	7.1	17.5	6.6	32.5	38.6	20.3	30.2	12.8	9.0	19.5	10.5	13.5	18.0	7.5	12.8	9.4	3.8	9.9-	8.2	11.9	6.5	19.3	11.9	6.8-	32.7	26.7	31.8	20.9	15.6
	19.1	25.2	13.0	20.0	11.3	37.2	1.44	23.2	34.5	14.7	10.3	22.2	12.0	15.4	20.6	9.6	14.6	5.2	4.3	9.1-	4.6	13.6	1.9	22.1	13.6	10.1	37.4	30.5	36.4	23.8	17.8	74.4
6																					15.3											
a.																					4.8				•							
-																					*8*			•								
•	. 32	1.08	=	5.45	2.70	1.39	1.50	. 32	. 32	1.50	.75	1.40	1.28	. 75	00.	53	42	63	1.17	1.06	.53	1.17	٠74	53 -	2.56	1.69	2.33	1.38	1.27	.63	.95	• 63
40	92.70	92.40	93.10	92.40	92.50	93.20	93.60	93.60	93.80	93.40	93.60	93.00	93.40	93.20	94.70	95.CC	94.50	95.00	93.90	94.10	94.80	94.30	94.30	94.60	93.90	94.70	94.50	94.10	94.46	95.00	95.10	95.30
#	1.3	7:	1.3	2.2	2.8	1.5	2.8	1.5	1.0	1.3	۲.	5.	1.3	۴.	1.8	1.2	1.0	3	•	9.	€.	1.6	1.0	7	2.1	2.1	2.2	1.6	1.0	1.2	2.0	1.6
EC.	91.80	92.10	92.00	92.70	92.40	93.10	92.40	92.50	93.20	93.60	93.60	93.80	93.40	93.60	93.00	93.40	93.20	94.70	95.00	94.50	95.00	93.90	94.10	94.80	94.30	94.30	94.60	93.90	94.70	94.50	94.10	04.46
2	93.00	93.40	93.20	04.70	95.00	94.50	95.00	93.90	94.10	94.80	94.30	94.30	09.46	93.90	04.70	05.46	94.10	04.46	95.00	95.10	95.30	95.40	95.00	01.46	96.30	96.30	04.96	04.56	95.60	95.60	00.96	95.90
-	82363	83063	90663	91363	92063	92763	100463	101163	101863	102563	110163	110863	111563	112263	112963	120663	121363	122063	122763	10364	11064	11764	12464	13164	20764	21464	22064	22864	30664	31364	64814	32664













hesD7895
An analysis of stock market indicators.

3 2768 001 89576 6
DUDLEY KNOX LIBRARY